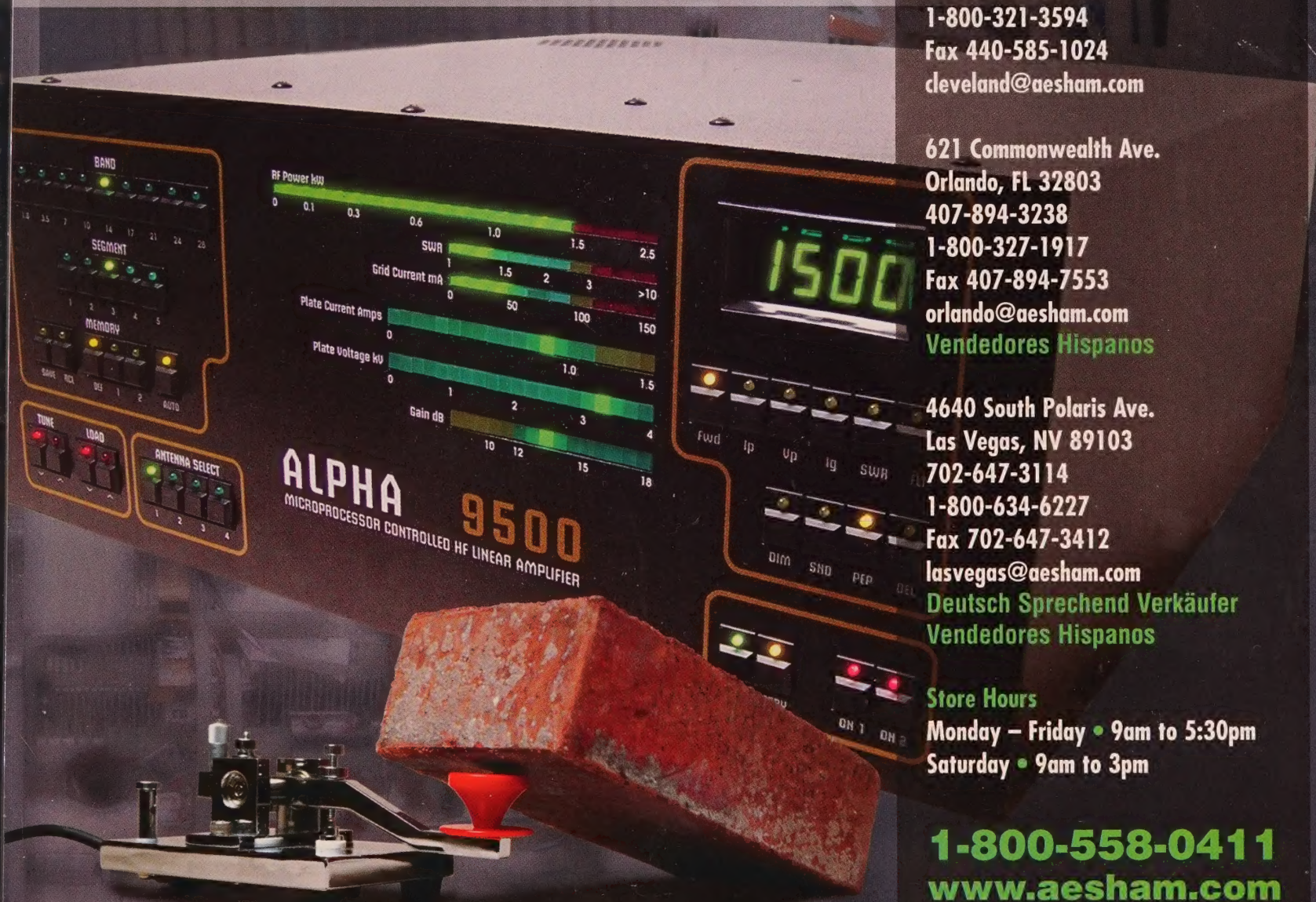


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EME-12	Headset w/earphone/mic/VOX	84.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	59.99
EMS-47	Spkr/mic w/volume control	39.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
ESC-49	Soft case	26.99
DJ-V5TH	5w 2m/440 FM HT	239.99
EBP-46N	9.6v 600mah 5w nicad battery	79.99
EDC-36	Angle plug cigarette cable w/filter	29.99
EDC-37	13.8v power cable	9.99
EDC-43	Cig lighter cable	14.99
EDC-93	Extra wall charger	14.99
EDH-29	Dry cell case for 4-AA's	16.99
EME-6	Earphone	14.99
EME-12	Headset w/earphone/mic/VOX	84.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	59.99
EME-20	Tie-pin mic & earphone	6.99
EME-25	Curl cord earphone	16.99
EMS-47	Spkr/mic w/volume control	39.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
DJ-S11T	340mw 2m FM HT/battery holder	89.99
EME-6	Earphone	14.99
EME-12	Headset w/earphone/mic/VOX	84.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	59.99
EME-20	Tie-pin mic & earphone	6.99
EMS-47	Spkr/mic w/volume control	39.99
ESC-27	Soft case	19.99
EBP-52N	3.6v 500mah NiMH batt; DJ-S40T	6.99
EBP-53N	6v 500mah NiMH batt; DJ-S40T	9.99
EBP-54N	3.6v 1500mah NiMH batt; DJ-S40T	14.99
EDH-31	Dry cell battery case; DJ-S40T	1.99
DJ-S45T	5w 440 FM HT w/alkaline case	139.99
EME-6	Earphone	14.99
EME-12	Headset w/earphone/mic/VOX	84.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	59.99
EME-20	Tie-pin mic & earphone	6.99
EMS-47	Spkr/mic w/volume control	39.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
ESC-40	Soft case	19.99
EDH-27	Dry cell case w/charger; DJ-X2T	6.99
EDS-12	Remote controller cable; DJX30T	19.99
ESC-28	Soft case for EBP-33N	6.99
ESC-29	Soft case for EBP-37N	6.99
DJ-X3T	1MHz-1.3GHz AWM/FM hand Rcvr/cell bkld	129.99
EBP-52S	3.6v 500mah NiMH battery	19.99
EDC-105	Drop-in NiMH batt cgr, less ps	9.99

Alinco - continued

AES Price

EDC-93	Wall ps for EDC-105	14.99
EDH-31S	Dry cell battery case	4.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
DR-03T	10w 10m FM Xcvr	279.99
DR-06T	50w 6m FM Xcvr	279.99
EDC-37	13.8v power cable; ignition on/off	9.99
EDC-43	Cig lighter cable; ignition on/off	14.99
EJ-41U	1200/9600 TNC unit; DR-06T	149.99
EJ-47U	Digital board; DR-06T	199.99
DR-135T Mk III	Black 50w 2m FM Xcvr	189.99
DR-235T Mk III	Black 25w 220 FM Xcvr	279.99
DR-435T Mk III	Black 35w 440 FM Xcvr	289.99
EDC-37	13.8v power cable; ignition on/off	9.99
EDC-43	Cig lighter cable; ignition on/off	14.99
EJ-41U	1200/9600 TNC unit	149.99
EJ-47U	Digital board; Mk II/III	199.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
SW-620	Windows programming software	39.99
DR-135TP Mk III	Blk 50w 2m FM/9600 TNC	299.99
EDC-37	13.8v power cable; ignition on/off	9.99
EDC-43	Cig lighter cable; ignition on/off	14.99
EJ-47U	Digital board; Mk II/III versions	199.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
SW-620	Windows programming software	39.99
DR-635T	50/35w 2m/440 FM Xcvr	399.99
EDS-9	Separation kit	59.99
EJ-47U	Digital board for DR-620T/635T	199.99
EJ-50U	TNC unit for DR-620T/635T	144.99
ERW-4C	PC cable	49.99
ERW-7	USB PC cable	49.99
MB-130	Extra mobile bracket	24.99
HK-130	Hardware kit for MB-130	7.99
PC-15B	Extra DC cable	14.99
SW-620	Windows programming software	39.99
DM-330MVT	30A switching ps/meter/32A surge	199.99
DM-340MVT	30A ps w/meters/35A surge	219.99
EDS-5	5' mic ext cable; DX-70TH/77T	19.99
PC-25	Extra DC cable; DX-70TH/77T	24.99

ALPHA (APA)

9500	Auto-tune 1.5kw HF amplifier	* 7950.00
8410	Manual tune 1.5kw HF amplifier	* 4995.00
*All Alpha amplifiers are drop-shipped from the factory in Colorado, ground freight prepaid..		
2100	HF 1.5kw no time limit dry dummy load	1495.00
4505	1.8-30 MHz 3kw faceless wattmeter for PC	545.00
4515	1.8-30 MHz 5kw faceless wattmeter for PC	595.00
4510	1.8-30 MHz 3kw wattmeter	945.00
4520	1.8-30 MHz 5kw wattmeter	995.00

ALPHA DELTA (ALP)

ATT-3G50	200w 3GHz type N surge protector	\$ 59.99
ATT-3G50-HP	2kw 3GHz type N surge protector	59.99
ATT-3G50U	200w 500MHz UHF surge protector	49.99
ATT-3G50U-HP	2kw 500MHz UHF surge protector	49.99
ATT-3G50	Extra 200w arc-plug cartridge	14.99
ATT-HP/3G50HP	Extra 2kw arc-plug cart	14.99
Delta-2B	500 MHz 2-pos coax switch/protector	59.99
Delta-2B/N	1.3 GHz 2-pos N switch/protector	75.99
Delta-4B	500 MHz 4-pos coax switch/protector	89.99
Delta-4B/N	1.3 GHz 4-pos N switch/protector	99.99
ASC-4B	500 Mhz 4-pos ant selector console	149.99
ASC-4B/N	1.3 GHz 4-pos N ant selector console	159.99
D-4	Extra arc-plug; all switches above	9.99
Delta-C	Kit w/ctr ins/2 end ins/static protect	29.99

Alpha Delta - continued AES Price

SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
Delta-CIN	Antenna end insulator	each 1.99
DX-80	80m 134' complete dipole antenna	69.99
DX-40	40m 67' complete dipole antenna	69.99
DX-20	20m 34' complete dipole antenna	69.99
DX-A	160-80-40m twin sloper antenna	99.99
DX-B	160-80-40-30m 60' sloper ant	109.99
DX-CC	80-10m 5-band 82' no trap, no tuner dipole	159.99
DX-DD	80/40m 82' Delta Dipole antenna	129.99
DX-EE	40-10m 4-band 40' no trap, no tuner dipole	139.99
DX-LB	160-80-40m 100' shortened dipole	159.99
DX-LB Plus	160/80/40/20/15/10m 100' short dip	189.99
DX-SWL	AM broadcast-13m 60' SWL sloper ant	119.99
DX-Ultra	AM broadcast-30MHz 80' SWL dipole	159.99
SEP	Extra arc-plug cart; DX-Ultra/Delta-C	15.99

AMECO (AME)

CODE PRACTICE OSCILLATORS & CODE KEYS

K-1	Bakelite type key	\$ 10.95
K-4R	Brass type key	19.95
OCM-2K	Code oscillator & CW monitor kit	19.99
OCM-2W	Wired oscillator & CW monitor	29.99

PREAMPLIFIER POWER SUPPLIES

P-12T	Power supply for PT-3	\$ 4.99
P-9T	Power supply for TPA	2.99

FILTERS

HP-75T	75 ohm high-pass filter	\$ 14.99
HP-300T	300 ohm high-pass filter	99

AMERITRON (AMR)

AL-80B	1kw PEP out linear amp (3-500Z)	1399.99
AL-82	1.5kw PEP out linear amp (2 3-500Zs)	Call/Web
AL-572	1.3kw PEP out linear amp (4 572Bs)	1669.99
AL-800	1250w PEP out linear (3CX800A7)	Call/Web
AL-800H	1.5kw PEP out amp (2 3CX800A7)	Call/Web
AL-811	600w PEP out linear amp (3 811As)	699.99
AL-811H	800w PEP out linear amp (4 811As)	849.99
AL-1200	1.5kw PEP out linear (3CX-1200A7)	Call/Web
AL-1500	1.5kw out linear amplifier (8877)	Call/Web
ALS-500M	500w PEP out solid state mob amp	749.99
ALS-500RC	Remote head; sn 13049 & up	49.99
SPS-75	75A switching power supply w/fan	359.99
ALS-600	600w PEP out solid state amp w/ps	1299.99
ALS-600S	600w PEP out solid state amp/switch ps	1399.99
ALS-1300	1200w PEP out solid state amp w/ps	Call/Web
ALS-500RC	Remote head	49.99
ARB-704	Amplifier Xcvr interface buffer	59.99
PNP-5M	Plug & play cable; FT-847	17.99
PNP-7D	Plug & play cable; TS-570S/870S/2000	17.99
PNP-8D	Plug & play cable; FT-920/1000 series	17.99
PNP-8DI	Plug & play cable; 8-pin DIN/com acc	17.99
PNP-8M	Plug & play cbl; FT-450/817/857/897/950	17.99
PNP-8MK	Plug & play cable; TS-480	17.99
PNP-13D	Plug & play cable; IC-706/7000	17.99
PNP-35	Plug & play cable; FT-100 series	17.99
ARB-70412	Amp Xcvr interface/cbl; IC-706/7000	59.99
ATP-100	Amplifier tuning pulser	69.99
ATP-102	Deluxe amplifier tuning pulser	79.99
ATR-20	1.2kw PEP antenna tuner	429.99
ATR-30	3kw PEP antenna tuner	559.99
ADL-1500	1.5kw dummy load with oil	74.99
ADL-2500	2.5kw dummy load with fan	209.99
ICP-120	120v inrush protector	79.99
ICP-240	240v inrush protector	79.99
AWM-30	3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35	3kw PEP mobile SWR/wattmeter	159.99
QSK-5	Stand alone T/R switch	369.99
QSK-5PC	PC board kit; T/R switch	279.99
CF-5	Cooling fan for QSK-5	39.99
RCS-4	4-pos wireless remote coax switch	149.99
RCS-8V	160-2m 5-pos remote coax switch	159.99
RCS-8VN	160-2m 5-pos N rem coax switch	169.99
Note: RCS-8V/VN require 8-wire control cable.		

Ameritron - continued AES Price

RCS-10 DC-100MHz 8-pos remote coax switch	179.99
Note: RCS-10 requires 4-wire control cable.	
SDC-102 Prog screwdriver ant controller	129.99

Amphenol (See Connectors)

ANTENEX/LAIRD (ANX)

AB-FT 118-896MHz 1/4 wave NMO whip	\$ 16.99
AB-SCANC VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N 144-174 2.4db n gnd plane NMO mob	39.99
BB-1443 144-174MHz 3db 49" NMO mobile	39.99
BB-4303 430-450 3db 11 1/2" NMO mobile	34.99
CB-144/440C 2m/440 2/5db 36" NMO mobile	49.99
CWB-1443 Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C Self-tuning 440-470 5db NMO mob	49.99
FG-1440/FM-2 2m 92" fg unity gain N base w/mt	69.99
FG-4403/FM-2 440-450 44" fg 3db N base w/mt	69.99
GB-8PSTI NMO mag mt w/coax & teflon PL259	34.99
LBMB-9034 Mirror mt 1/2" hole L-bracket	10.99
MB-8PST NMO hole mt w/coax & teflon PL259	16.99
TM8-PST Chrome NMO mini trunk mt/coax/PL259	26.99
TRABT-1420 142-164 Phantom whipless NMO	59.99
TRAB-4303 430-450 3db Phantom whipless NMO	29.99
VTPM NMO mt; up to 1" thick plate (UHF barrel)	19.99
Y-1363 136-150MHz 3el 7.1db gold N beam	99.99
Y-1365 136-150MHz 5el 9.2db gold N beam	129.99
Y-4303 430-450 3el 7.1db gold welded N beam	99.99
Y-4305 430-450 5el 9.2db gold welded N beam	129.99

Antenna Specialists (ASP)

APR143 2m 23" on glass cell look-alike ant	\$ 49.99
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ARROW Antenna (ARA)

146/437-10 3 el 2m/7 el 440 handheld beam	\$ 73.00
146/437-10BP 3el 2m/7el 440 HH split bm beam	79.00
10w duplexer (installs in boom) w/BNC	59.00
10w duplexer (installs in boom) w/SMA	64.00
OSJ-146/440 2m/440 57.5" J-pole antenna	39.00

ARTSCI (ART)

Repeater Mapbook 15th edition	\$ 14.99
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ASTRON (ASR)

RS-7A 5A power supply, 7A surge	\$ 69.99
RS-10A 7.5A power supply, 10A surge	79.99
RS-12A 9A power supply, 12A surge	89.99
RS-20A 16A power supply, 20A surge	99.99
RS-35A 25A power supply, 35A surge	159.99
RS-50A 37A power supply, 50A surge	229.99
RS-70A 57A power supply, 70A surge	299.99
RS-20M 16A ps w/meters, 20A surge	129.99
RS-35M 25A ps w/meters, 35A surge	179.99
RS-50M 37A ps w/meters, 50A surge	259.99
RS-70M 57A ps w/meters, 70A surge	329.99
VS-20ML Variable 16A ps/meters, 20A surge	149.99
VS-35M Variable 25A ps/meters, 35A surge	209.99
VS-50M Variable 37A ps/meters, 50A surge	279.99
RM-35M 25A rack mt ps/meters, 35A surge	269.99
RM-50M 37A rack mt ps/meters, 50A surge	319.99
RM-60M 50A rack mt ps/meters, 55A surge	429.99
SS-25 20A switching ps, 25A surge	129.99
SS-25M 20A switching ps/meters, 25A surge	149.99
SS-30 25A switching ps, 30A surge	139.99
SS-30M 25A switching ps/meters, 30A surge	159.99
N2412-12 10A 22-32vdc to 13.8vdc converter	59.99
N2412-24 20A 22-32vdc to 13.8vdc converter	89.99

AvMap (AVM)

G-5 Geosat 5 GPS/THD7A/TMD700/710A cable	Call/Web
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BMI (BMI)

972AD 12" 12/24-hour wall clock	\$ 32.99
973A 12" 24-hour wall clock	49.99

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216 RG-174 (sub-miniature)	.....Δ, per ft.	\$.24
8240 RG-58U (solid center)	.....Δ, per ft.	.29
8259 RG-58AU (stranded center)	.....Δ, per ft.	.34
8219 RG-58AU (stranded, foam)	.....Δ, per ft.	.34
8219 WHT RG-58AU (white, foam)	.....Δ, per ft.	.34
8262 RG-58CU (non-contaminating)	Δ, per ft.	.34

75 OHM COAXIAL CABLE

8241 RG-59U (73 ohm, solid center)	Δ, per ft.	\$.24
9248 RG-6U (75 ohm, solid center)	Δ, per ft.	.24
8213 RG-11 (75 ohm, solid, foam)	.....Δ, per ft.	.89
8238 RG-11 (75 ohm, stranded center)	Δ, per ft.	.89

ROTOR CABLE

8484 4-wire; 4-20 gaugeΔ, per ft.	\$.39
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COPPERWELD ANTENNA WIRE

8000 No. 14 stranded antenna wire	Δ, per ft.	\$.44
8000Δ, 100 ft. Roll	39.99

No. 8 ALUMINUM GROUND WIRE

8018 Multiples of 50 ft.D, each	\$ 19.99
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FOAM COAX w/PL-259s ON BOTH ENDS

9355 75' RG-8U foamΔ	\$ 89.99
9356 100' RG-8U foamΔ	119.99

BENCHER (BEN)

BY-1 Iambic keyer paddle w/black base	.....	\$119.99
BY-2 Iambic keyer paddle w/chrome base	.....	149.99
BY-4 Iambic paddle/blk base/gold components	.....	179.99
170-82 Mercury paddle	.....drop ship	469.99
ST-1 Single lever keyer paddle, black base	.....	119.99
ST-2 Sgl lever kyr paddle, chrome base	.....	144.99
RJ-1 Dlx hand key w/navy knob/black base	.....	119.99
RJ-2 Dlx hand key w/navy knob/chrome base	.....	149.99
EZ-1 Universal hook-up kit; paddle/key (not 170-82)	.....	10.99
YA-1 1kw low pass filter	.....	95.99

BETTER RF (BET)

706 Tune Control for IC-706 series/IC-718	.....	\$ 32.99
7000 Screwdriver Control* for IC-7000	.....	99.99
*Requires 7000 Tune Control also		
7000 Tune Control for IC-7000	.....	64.99
I-Mate Msg acc; 746PRO/756PRO/7600/7700/7800	.....	84.99
Yae Tune Control for FT-100/450/857/897/950	.....	44.99

Bounty Hunter (BOU)

Carry Bag For Bounty Hunter metal detectors	.....Δ	\$ 14.99
10" Coil 10" magnum coil; adds depth	.....Δ	39.99

BUCKMASTER (BUC)

HamCall CD-ROM ham listings	.....	\$ 49.99
OCF 7-band 300w 135' off-center-fed dipole	189.99

BUTTERNUT (BUT)

Skyhawk 3X10 Triband 10 el, 24' beam w/bauln *	1249.99
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*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.

HF-6VX 80/40/30/20/15/10m 26' vert ant	.....	389.99
HF-9VX 80/40/30/20/17/15/12/10/6m 26' vert	.....	449.99
A17-12 17 & 12m kit for HF-6VX	.....	66.99
CPK Counterpoise kit	.....	179.99
MPS Mounting post sleeve	.....	15.99
RMK-II Roof mounting kit w/radials	.....	199.99
STR-II Radial kit only	.....	159.99
TBR-160S 160m resonator	.....	169.99
HF-2V 80/40m 32' vertical	.....	299.99
TBR-160S 160m resonator	.....	169.99

AES Price

CQ (CQX)

Building and Using Baluns and Ununs	.....	\$ 19.99
HR Anthology - Homebrewing Techniques	.....	19.99
W6SAI HF Antenna Handbook	.....	19.99

CSS (CSS)

Digital Desktop SC Software for IC7200/7600	Δ	\$ 29.99
Emcomm Ops AEA/TIM Software PK-12/96/232	Δ	19.99
Emcomm Ops Kan Software; Kantronics TNC	Δ	19.99
ROC Digital Desktop; AEA/Tim Soft PK12/96/232	Δ	79.99
ROC Digital Desktop; Kan Software; Kan TNC	Δ	79.99
PK232 25th Anniversary Software CD	.....Δ	119.99

CABLE X-PERTS (CAB)

CXP1318FX	CXP1318FX (low loss, flexible) per ft.	\$ 1.04
CXP1318FX	.....500 ft. Roll	476.99

CXP1318FC-3 3' CXP1318FX/silver teflon PL259s	22.99
CXP1318FC-6 6' CXP1318FX/silver teflon PL259s	24.99
CXP1318FC-25 25' CXP1318FX/silver teflon PL259s	45.99
CXP1318FC-50 50' CXP1318FX/silver teflon PL259s	77.99
CXP1318FC-75 75' CXP1318FX/silver teflon PL259s	102.99
CXP1318FC-100 100' CXP1318FX/silver teflon PL259s	133.99
CXP1318FC-150 150' CXP1318FX/silver teflon PL259s	186.99

CXP1318FN-3 3' CXP1318FX/type N males	.....	29.99
CXP1318FN-6 6' CXP1318FX/type N males	.....	32.99
CXP1318FN-10 10' CXP1318FX/type N males	.....	35.99
CXP1318FN-25 25' CXP1318FX/type N males	.....	54.99
CXP1318FN-50 50' CXP1318FX/type N males	.....	83.99
CXP1318FN-75 75' CXP1318FX/type N males	.....	116.99
CXP1318FN-100 100' CXP1318FX/type N males	.....	139.99
CXP1318FN-125 125' CXP1318FX/type N males	.....	170.99

CXP008C-3 3' RG8 foam/silver teflon PL259s	22.99
CXP008C-6 6' RG8 foam/silver teflon PL259s	25.99
CXP008C-25 25' RG8 foam/silver teflon PL259s	37.99
CXP008C-50 50' RG8 foam/silver teflon PL259s	55.99
CXP008C-75 75' RG8 foam/silver teflon PL259s	73.99
CXP008C-100 100' RG8 foam/silver teflon PL259s	98.99
CXP008C-125 125' RG8 foam/silver teflon PL259s	115.99

CXP213C-6 6' RG213/silver teflon PL259s	.....	26.99
CXP213C-15 15' RG213/silver teflon PL259s	.....	36.99
CXP213C-25 25' RG213/silver teflon PL259s	.....	47.99
CXP213C-50 50' RG213/silver teflon PL259s	.....	73.99
CXP213C-75 75' RG213/silver teflon PL259s	.....	96.99
CXP213C-100 100' RG213/silver teflon PL259s	.....	118.99

CXP08XC-18IN 18" RG8X/silver teflon PL259s	.....	14.99
CXP08XC-3 3' RG8X/silver teflon PL259s	.....	16.99
CXP08XC-6 6' RG8X/silver teflon PL259s	.....	18.99
CXP08XC-12 12' RG8X/silver teflon PL259s	.....	22.99
CXP08XC-25 25' RG8X/silver teflon PL259s	.....	26.99
CXP08XC-50 50' RG8X/silver teflon PL259s	.....	36.99
CXP08XC-75 75' RG8X/silver teflon PL259s	.....	47.99
CXP08XC-100 100' RG8X/silver teflon PL259s	.....	57.99

6633S Type N male; 8214/9913/9913F	.....	6.99
CXP058ARBP-3 3' RG58/ft angle BNC male - PL-259	.....	19.99
CXP058ARBS-3 3' RG58/BNC male - SO-239	.....	30.99
CXP08XCB-3 3' RG8X/male BNCs	.....	27.99
CXP08XCB-6 6' RG8X/male BNCs	.....	29.99
UG-3634 4" SO-239 double female	.....	9.99
UG-3636 6" SO-239 double female	.....	12.99

235 1" tinned copper ground braid	.....per ft.	1.44
235	.....100 ft. Roll	124.99
2332 1/2" tinned copper ground braid	.....per ft.	.89
2332	.....100 ft. Roll	70.99
AZ-12 12ga red/black DC power cord	.....per ft.	1.10
AZ-12100 ft. Roll	95.99

Channel Master (CHA)

9521A Prog light duty rotor/IR rem cont/3-wire	\$119.99
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CLOCKS

BMI 972AD 12" 12/24-hour wall clock	\$ 32.99
BMI 973A 12" 24-hour wall clock	49.99
LAC WT-3102S 10" 12-hr analog atomic clock	.....	19.99

Clocks - continued

AES Price

MFJ 105C	24-hour quartz wall clock	24.99
MFJ 107B	24-hour digital clock	12.99
MFJ 108B	24/12-hour dual disp digital clock	21.99
MFJ 112B	Deluxe world map clock	29.99
MFJ 113	24/12-hr 1.8" LED clock/batt back-up	19.99
MFJ 118	Giant 24/12 hour LCD clock	29.99
MFJ 123	Eternity solar atomic clock	24.99
MFJ 123B	Eternity solar atomic clock	79.99
MFJ 125	Calendar 24-hour analog wall clock	34.99

COAX SEAL (UNV)

104	1/2" x 60" coax seal	\$ 3.99
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COAX WRAP (CWR)

CW-10B	1" x 10' black silicon tape	\$ 6.99
CW-10R	1" x 10' red silicon tape	6.99

Coaxial Dynamics (COA)

81000-A	Wattmeter w/SO-239s	\$289.99
83000-A	Peak reading wattmeter w/SO-239s	413.99
82004	50w 2-30MHz element	105.99
82005	100w 2-30MHz element	105.99
82006	250w 2-30MHz element	105.99
82007	500w 2-30MHz element	105.99
82008	1000w 2-30MHz element	105.99
82009	2500w 2-30MHz element	139.99
82010	5000w 2-30MHz element	139.99
82013	10w 25-60MHz element	75.99
82014	25w 25-60MHz element	75.99
82015	50w 25-60MHz element	75.99
82016	100w 25-60MHz element	75.99
82029	10w 100-250MHz element	75.99
82031	50w 100-250MHz element	75.99
82033	250w 100-250MHz element	75.99
82046	10w 400-1000MHz element	75.99
82048	50w 400-1000MHz element	75.99
82049	100w 400-1000MHz element	75.99
88000	N female quick match connector each	13.99
88800	Carrying case for meter	72.99

COBRA (COB)

19DX IV	AM Mobile CB	\$ 49.99
25LTD	(25LTD Classic) AM Mobile CB	89.99
25WXNW ST	Night Watch Sound Tracker AM/Mob CB/WX	119.99
29LTD	(29LTD Classic) AM Mobile CB	99.99
29NW	Night Watch AM Mobile CB	119.99
29WXNW ST	Night Watch Sound Tracker AM/Mob CB/WX	139.99
75WX ST	Sound Tracker AM Mobile CB w/WX	99.99
148GTL	SSB/AM Mobile CB	149.99
HH-Road Trip	Sound Tracker HH CB/WX/mag ant	89.99
HGA-1000	Magnet mt CB antenna	29.99
HGM-77	Noise canx/amplified mobile mic	29.99

COMET (CMT)

ANTENNA MOUNTING SYSTEMS

CP-45	14' 8" 1-3/8" OD telescoping alum mast	\$ 99.99
106105	RV ladder bkts for CP-45 or 1.5" mast	54.99
YS-45	Ground mount aluminum tripod for CP-45	119.99

SWR/POWER METER

CMX-1	1.8-60MHz 2kw remote SWR/pwr meter D	\$149.99
EKS-3	Optional 10' extension cable for CMX-1	19.99

MOBILE ANTENNAS

B-10	2m/440 0/2.15db 12" cell look-alike ant	\$ 42.99
B-10NMO	2m/440 0/2.15db 12" cell look-alike NMO	42.99
CA-2X4SR	2m/440 3.8/6.2db 40" mob ant	69.99
CSB-750A	2m/440 3.6/6.1db 42" foldover ant	74.99
CSB-770A	2m/440 4.4/6.9db 51" foldover ant	89.99
CSB-790A	2m/440 5.1/7.7db 62" foldover ant	119.99
HP-32FHN	2m/440 3/5.5db 34" 350/250w ant	89.99
M-24B	2m/440 1.7/4.1db mag mt ant w/BNC	42.99
M-24M	2m/440 1.7/4.1db mag mt ant w/PL259	42.99
M-24S	2m/440 1.7/4.1db mag mt ant w/SMA	42.99
SBB-1	2m/440 1.5/2.15db 16" flex mobile	42.99
SBB-1NMO	2m/440 1.5/2.15db 16" flex NMO	42.99
SBB-2	2m/440 2.15/3.8db 18" black mobile	42.99

Comet - continued

AES Price

SBB-2NMO	2m/440 2.15/3.8db 18" blk NMO	42.99
SBB-5	2m/440 3/5.5db 38" black mobile ant	58.99
SBB-5NMO	2m/440 3/5.5db 38" black NMO	58.99
SBB-7	2m/440 4.5/7.2db 55" black mob ant	79.99
SBB-7NMO	2m/440 4.5/7.2db 55" black NMO	79.99
SB-14	6m/2m/440 43" chrome mobile ant	69.99
SBB-15	6m/2m/440 0/4.5/7.2db 61" blk mob	89.99
SBB-25	2m 4.1db black mobile antenna	52.99
SBB-25NMO	2m 4.1db black NMO mob ant	52.99
SBB-94	2m/440/1.2 2.15/5.1/7.2db 24" N blk	69.99
SBB-97	2m/440/1.2 3/6.8/9.6db 40" N black	84.99
SB-123	1.2GHz 7.2db 24" type N mob ant	34.99
SBB-123	1.2GHz 7.2db 24" type N blk mob	54.99
SBB-224	2m/220/440 2.15/3.5/6db blk mob	79.99
SBB-224NMO	2m/220/440 2.15/3.5/6db blk NMO	79.99
SF-245SPRR	2.4GHz 7db 18" fg N ant/spring	59.99
SS-460SB	2m/440 2.15/3.8db 18" blk ant/spring	43.99
SS-460SBNMO	2m/440 2.15/3.8db 18" blk NMO/spg	43.99
SS-680SB	2m/440 2.15/4.15db 27" blk ant/spg	46.99
SS-680SBNMO	2m/440 2.15/4.15db 27" blk NMO/spg	46.99
UHV-4	10/6/2/440 55" mobile ant; FT8900R	109.99
UHV-6	40/15/10/6/2m/440 78" mobile ant	179.99
L-3.5	80m loading coil for UHV-6	34.99
L-14	20m loading coil for UHV-6/CA-HV	29.99
L-18	17m loading coil for UHV-6/CA-HV	29.99

MOBILE MOUNTS

3D4M	Mobile mt, 13' coax w/UHF connectors	\$ 27.99
3D4N	Mobile mt, 13' coax w/type N	29.99
3D5M	Mobile mt, 16.5' coax w/UHF connectors	29.99
5D4N	Roof mount, 13' coax w/type N	34.99
AD-10N	NMO mount to female N adapter	21.99
AD-15M	NMO mount to SO-239 adapter	21.99
AD-25M	SO-239 to NMO mount adapter	15.99
AD-35M	3/4-24 stud to UHF mobile mt adapter	17.99
CK-3-3/8-24	Dlx 2-step 16.5' cbl/3/8-24/UHF	42.99
CK-3M	Dlx 2-step 9'9" cable w/UHF connectors	35.99
CK-3M5	Dlx 2-step 16.5' cable w/UHF connects	42.99
CK-3NMO	Dlx 2-step 16.5' cable w/NMO/UHF	42.99
CK-5N	Dlx 13' cable assembly w/type N	44.99
CM-5M	Hvy duty mag mt, coax, max 4' ant	24.99
CP-5-3/8-24	HD 3/4-24 mt (RS-730)/16.5' coax	69.99
CP-5M	Hvy duty UHF mt (RS-730) w/16.75' coax	69.99
CP-5NMO	Hvy duty NMO mt (RS-730) w/16.5' coax	69.99
CR-5M	Std coax assy, 16.5' coax, UHF conn	21.99
CT-5M	Trunk lip mount w/16.5' coax	39.99
GRB-5M	Deluxe black trunk lip mt w/coax	72.99
HD-5-3/8-24	HD 3/4-24 lip mt (RS-840) w/16.5' coax	79.99
HD-5M	Hvy duty lip mt (RS-840) w/16.5' coax	79.99
MG-4N	Magnet mt w/13' coax, N connector	54.99
RS-520	Mini heavy duty trunk/hatch mount	28.99
RS-560C	Luggage rack mount, no coax	37.99
RS-720	Hatch/rear door/trnk multi-adj mt	29.99
RS-720NMO	Hch/rear door/trnk multi-adj NMO mt	29.99
RS-730	HD rear van/SUV door/trnk lip mt, no coax	32.99
RS-840	HD low profile lip mt w/lateral support	39.99
WS-1M	Window clip mt w/UHF connectors	66.99

BASE STATION ANTENNAS

CA-712EF	440 9db 10' 5" base antenna	\$119.99
CA-ABC22A	2m 6.5db 9' 5" base/rptr ant	69.99
CA-ABC23	2m 7.8 db 13' 4" base/rptr ant	99.99
CA-F72GF	440-470 6db 3' 6" tunable ant	109.99
CA-52HBA	6m 4 el 10.4db 10' 6" boom beam	139.99
CHA-250B	3.5-57MHz no radials 23.5' vertical	429.99
CX-333	2m/220/440 6.5/7.8/9db 10.25' ant	199.99
CYA-1216E	1.2GHz 16el 16.6db 4' 5" bm N beam	139.99
DS-150S	6m/2m/440/900/1.2 discone/60' coax	99.99
GH-50	6m 2.15db 7' 10" fg base antenna	114.99
GP-1	2m/440 3/6db 4' 1" base/rptr antenna	79.99
GP-3	2m/440 4.5/7.2db 5' 11" base/rptr ant	99.99
GP-6	2m/440 6.5/9db 10' 2" base/rptr ant	159.99
GP-9	2m/440 8.5/11.9db 17' 8" base/rptr	219.99
GP-9N	2m/440 8.5/11.9db 17' 8" N base/rptr	219.99
GP-15	6/2m/440 3/6.2/8.6db 7' 11" base	189.99

Comet - continued

AES Price

GP-21/CA-1221S	1.2 14.8db 8' N base/rptr ..	174.99
GP-24R	2.4GHz 15.4db 5' 10" N base/rptr ...	149.99
GP-95	2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant	179.99
GP-98	2m/440/1.2 6.5/9/13.5db 9' 8" N ant ..	199.99
H-422	40/20/15/10m 34' rotatable dipole	349.99
KP-20	900 MHz 9.2db 7' 4" type N base/rptr ..	119.99
CTC-50M	Window gap adapter	54.99

DUPLEXERS AND TRIPLEXERS

CF-142	1.3-150/200-480 600/400w UHF/leads ..	\$ 64.99
CF-360A	1.3-30/50-470 600w UHF w/leads ..	64.99
CF-360B	1.3-30/50-470 600w UHF/common lead ..	69.99
CF-413B	1.3-460/840-1.4 D-Star N/UHF/N/leads ..	62.99
CF-416A	2m/440 800/500w SO239/PL259/leads ..	49.99
CF-416B	2m/440 800/500w UHF/N w/leads ..	49.99
CF-416C	2m/440 800/500w N/UHF/N leads ..	54.99
CF-416W	1.3-250/400-1400 400/200w N/leads ...	69.99
CF-530	1.3-90/125-470 600w UHF w/leads ..	74.99
CF-530C	Backwards duplexer for FT-8900R ..	69.99
CF-706A	1.3-56/75-470 350w UHF w/leads ..	74.99
CF-4130B	1.3-460/840-1400 800/500/200w UHF/N ..	59.99
CF-4160I	2m/440 800/500w UHF/UHF/N, no leads ..	48.99
CF-4160J	2m/440 800/500w SO239, no leads ..	53.99
CF-4160K	2m/440 800/500w all UHF, no leads ..	48.99
CFX-324A	2m/220/440 600w UHF w/leads ...	88.99
CFX-324B	2m/220/440 600w UHF, no leads ..	85.99
CFX-431B	2m/440/1.2 D-Star N/UHF/N/leads ..	85.99
CFX-514	HF/2m/440 800/800/500w UHF w/leads ..	79.99
CFX-514J	HF/2m/440 800/800/500w UHF, no leads ..	74.99
CFX-514N	HF/2m/440 800/800/500w UHF/N w/leads ..	79.99
CFX-4310C	1.3-150/440/1.2 triplexer, no leads ..	79.99
CFX-5140	HF/6m/2m/440 800/800/500w UHF, no leads ..	74.99

HT & HANDHELD SCANNER ANTENNAS

BNC-24	2m/440 17" 2.15/5.3db BNC whip ...	\$ 24.99
CH-32	2m/440 1.75" BNC Miracle Baby ant ..	29.99
CH-75	2m/440 0/3.2db 14.75" BNC ant	25.99
HB-05	18" BNC female - SMA male adapter/cbl ..	14.99
HM-05	18" BNC male - SO-239 adapter/cable ..	14.99
HS-05	18" SMA male - SO-239 adapter/cable ..	14.99
HS-10	39" SMA male - SO-239 adapter/cable ..	17.99
HT-224	2m/220/440 11.5" SMA antenna	47.99
SH-55	2m/440 1.5/3.2db 15" BNC ant	33.99
SH-95	2m/440/1.2 1.5/2.15/5.5db BNC ant ..	34.99
SMA-3	2m/440 1.2/1.7db 9.75" SMA ant	39.99
SMA-24	2m/440 17" 2.15/5.3db SMA whip ...	24.99
SMA-501	2m/440/900 1.5" SMA antenna	29.99
SMA-503	2m/440 8.75" SMA antenna	29.99
SMA-703	2m/440/1.2GHz 6.5" SMA ant	31.99

Comm Outfitters (COF)

EXP-1	Expedition Pack for Yaesu FT-817	\$ 99.99
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COMM-SPEC (COM)

ID-8	Automatic morse station identifier	\$ 69.99
SS-64	64-tone mini prog CTCSS encoder	28.99
TE-32	32-tone CTCSS prog encoder box	59.99
TS-64DS	64-tone CTCSS prog encoder/decoder ..	57.99

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-1SP	Silver plated coax plug (PL-259)	\$ 2.99
(CZL) 401TS	Silver plated teflon PL-259	1.99
83-168-RFX	Reducer; RG-59/RG-8X (UG-176) ..	.99
83-185-RFX	Reducer for RG-58 (UG-175) ..	.99
(SHA) PL-259-CP-G	Solderless PL259/RG8X/58 ..	6.99
(SHA) PL-258-CP-G	Solderless splice;RG8X/58 ..	9.99
83-1AP	Right angle adaptor (UG-646)	14.99
83-1J	Double female adaptor (PL-258) ..	11.99
83-1R	Female chassis mt socket (SO-239) ...	4.99
83-1T	T-connector adaptor (M-358)	16.99
83-877	Double male adaptor	26.99
83-878	Single hole 3/8" chassis socket	6.99
31-002	BNC male connector for RG-58	5.99
31-012	BNC male connector; RG-59/RG-8X ..	9.99
31-221	BNC female chassis socket	2.99

Price Guide
Ham Radios
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Antenna Accessories
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AES Information

Connectors - continued AES Price

82-24	Type N female chassis mt socket	9.99
82-64	Type N right angle adaptor	26.99
(CAB) 6633S	Type N male; 8214/9913/9913F	6.99
82-202-1006	Type N male; 8214/9913/9913F	8.99
34025	Type N male connector for RG-58	13.99
(CAB) UG-3634	4" SO-239 double female	9.99
(CAB) UG-3636	6" SO-239 double female	12.99

AMPHENOL COAX ADAPTORS (AMP)

2900	SO-239 to BNC male adaptor	\$ 16.99
4400	SO-239 to type N male adaptor	19.99
31-28	BNC female to PL-259 adaptor	19.99
(HOU) SMA-872	SO-239 to SMA plug adaptor	5.99
(VCO) VAD-1	SO-239 to BNC male adaptor	3.99

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

25-7365	BNC female to SO-239	\$ 3.99
26-8010	Type N double female	4.99
26-8011	Type N chassis mount	3.99
26-8014	N female to PL-259	4.99
26-8015	N male to SO-239	5.99
26-8016	BNC female to N male	6.99
26-8017	BNC male to N female	4.99
27-8120	BNC female to PL-259	3.99
27-8130	BNC double male	3.99
27-8140	BNC T; 2 female, 1 male	2.99
27-8150	BNC right angle adapter	3.99
27-8470	Dual BNC chassis mount	.99
29-3855	BNC female to SMA male	4.99
(RFP) RSA-3476	BNC male to SMA female	8.99
29-4140	SO-239 to mini PL-259	3.99
CPAD-207	Chassis mt 2" SO-239 double female	5.99
CPAD-556M	Dual BNC chassis mount	4.99

VANCO MICROPHONE CONNECTORS (VCO)

CBC-4	4-pin female mic plug	\$ 4.99
CBC-5	5-pin female mic plug	3.99
CBC-6	6-pin female mic plug	4.99
(PHI) 61-608B	8-pin female mic plug	4.99
CBC-8P	Panel mt 8-pin male	5.99

KENWOOD DIN PLUGS (KEN)

7-pin DIN plug	\$ 4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99

VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)

MH-1	Magnetic mic holder	\$ 2.99
MH-2	Regular mic holder	1.49
P-12R	2-contact cigarette plug	2.99
P-12V	Cig lighter plug w/leads	2.99
P-12X	Solderless cig lighter plug	1.99
P-35	3.5mm miniature phone plug	.29
P-212	2-outlet cigarette plug adapter	4.99
P-212B	Dual cigarette lighter socket adapter	8.99
(DAL) 15-0293	3.5mm mono phone plug	.19
(HOU) AP-115	1/4" metal stereo plug	1.99
(HOU) AP-135	3.5mm stereo mini phone plug	.69
(HOU) VCC-6B	20 pack of cable clips; RG6/8X	.29

C. CRANE (CRA)

CC2B	Black AM/FM/WX/2m portable receiver	\$149.99
CSW	AM/FM/SW portable receiver	139.99
SWP	AM/FM/SW pocket receiver	44.99

CROSS DEVICES (CRS)

STUF	Coax connector waterproofing filler	\$ 5.99
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CUSHCRAFT (CUS)

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S	2m, 3 el wideband beam, 7.8db	\$ 69.99
A148-10S	2m, 10 el wideband beam, 13.2db	139.99
A449-6S	440 MHz, 6 el, 3' boom, 10 db	79.99
A449-11S	440 MHz, 11 el, 4.5' boom, 13 db	119.99

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S	2m/440, 3/3 el, 2.8' boom, 7.8 db	\$129.99
A270-10S	2m/440, 5/5 el, 6.17' boom, 10 db	169.99

Cushcraft - continued AES Price

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAM

A6270-13S	6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	\$279.99
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FM RINGOS - 1/2 Wave Verticals

AR-10	10m FM Ringo, 17.6', 3db, 1000w	\$109.99
AR-6	6m FM Ringo, 10.1', 3db, 1000w	99.99
AR-2	2m FM Ringo, 3.9', 3db, 1000w	64.99
AR-450	440MHz FM Ringo, 1.4', 3db, 500w	47.99

RINGO RANGERS - FM Verticals

ARX-2	2m FM Ringo Ranger, 9.3', 5db, 1000w	\$ 79.99
ARX-2B	2m FM Ringo Ranger II, 14', 7db, 1000w	109.99
ARX-220B	220 FM Ringo Ranger II, 9.3', 7db, 500w	114.99
ARX-450B	440FM Ringo Ranger II, 4.9', 7db, 500w	99.99

DUAL-BAND 2M/440 FM RINGOS

AR-270	2m/440MHz FM, 3.75', 3/5.5db, 250w	\$129.99
AR-270B	2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	189.99

TWIST, OSCAR BEAM (Horiz/Vert Polarization)

A148-20T	2m 20el 10.8'boom 13db twist	\$219.99
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BOOMER ANTENNAS

124WB	2m Boomer, 4 el, 4' boom, 10.2 db	\$109.99
13B2	2m Boomer, 13 el, 15' boom, 15.8 db	249.99
17B2	2m Boomer, 17 el, 31' boom, 18 db	369.99
26B2	2 13B2s vertically stacked	599.99
224WB	220 Boomer, 4 el, 3' boom, 10.2db	99.99
719B	432 19 el 13.5' boom 15.5db	249.99

BOOMER POWER DIVIDERS

PD-2	Power divider for 2 13B2s	\$ 69.99
PD-4	Power divider for 4 13B2s	89.99

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S	6m, 3 el, 6' boom, 8 db, stainless hdwre	\$139.99
A50-5S	6m, 5 el, 12' boom, 10 db, stainless hdwre	199.99
A50-6S	6m, 6 el, 20' boom, 11db, stainless hdwre	399.99
A148-10S	2m, 10 el wideband beam, 13.2db	139.99
A430-11S	430 MHz, 11 el, 4' boom, 13 db	119.99

*Antennas can be mounted vertically or horizontally!

MONO-BAND MOBILE ANTENNA

CS-450M	440 magnet mt 5 db antennaD \$ 24.99
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MULTIBAND HF VERTICAL ANTENNAS

MA-5VA	20/17/15/12/10m 14.7' vertical ant	\$299.99
MA-6VA	20/17/15/12/10/6m 14.7' vertical ant	339.99
MA-160V	160m 36' vertical ant w/radials	299.99
MA-8040V	80/40m 27' vertical antenna	319.99
R-6000	20/17/15/12/10/6m 19' vertical	429.99
R-8	40/30/20/17/15/12/10/6m 28.5' vert	539.99
R-8GK	Guy kit for R-8	56.99

ROTATABLE HF DIPOLES

D-3	20/15/10m World Ranger rotatable dipole	\$369.99
D-3W	30/17/12m rotatable dipole	369.99
D-4	40/20/15/10m World Ranger rotatable dipole	419.99
D-40	40m World Ranger rotatable dipole	399.99

BIG THUNDER HF TRI-BAND BEAM

X-7	20/15/10m, 7 el, 18' boom, 12.5/13db	1099.99
X-740	40m add-on kit for X-7	369.99

BIG THUNDER HF MONOBAND BEAM

XM-240	40m, 2 el, 22' boom, 6 db	\$999.99
TEN-3	10m, 3 el, 8' boom, 8 db	299.99

MULTIBAND HF BEAM ANTENNAS

A-3S	20/15/10m, 3el, 14'bm, 8db, stainless hdwr	\$599.99
A-743	40m or 30m add-on kit; A-3/A-3S	199.99
A-4S	20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	699.99
A-744	40m or 30m add-on kit; A-4/A-4S	199.99
A-3WS	17 & 12m, 3 el, 14' boom, 8 db	499.99
A-103	30m add-on kit for A-3WS	199.99
ASL-2010	13.5-32MHz 8el 18' bm 6.4db LP	999.99
MA-5B	20/17/15/12/10m 7.3' boom mini beam	499.99

LIGHTNING ARRESTORS

LAC-4N	200w type N gas tube arrestor	.....D \$ 29.99
LAC-4NH	2kw type N gas tube arrestor	.....D 39.99
LC-2	Extra 200w cartridge for LAC-4/4N	.D 6.99
LC-2KW	Extra 2kw cartridge for LAC-4H/4NH	D 9.99

AES Price

DCI (DCI)

145-2H	2m 144-146MHz 200w bandpass filt	Δ \$169.99
146-4H	2m 144-148MHz 200w bandpass filt	Δ 169.99
435-10C	430-440MHz 200w N bandpass filt	Δ 189.99
445-10C	440-450MHz 200w N bandpass filt	Δ 189.99
146/444-DB	144-148/438-450 200w bp filt	Δ 239.99

DAIWA (DAI)

CN-101	1.8-150 15/150/1.5kw SWR/pwr meter/light	\$ 99.99
CN-103M	140-525 20/200w SWR/power meter	99.99
CN-103N	140-525 20/200w N SWR/pwr meter	109.99
CN-801HP	1.8-200 20/200/2kw SWR/PEP pwr	164.99
CN-801SII	900-2.5GHz 200mw/2/20w N SWR/pwr	269.99
CN-801V	140-525 20/200w SWR/power meter	159.99
CS-201	2-position 600MHz coax switch	32.99
CS-201GII	2-position 2GHz N coax switch	48.99
SS-330W	Variable 30A switch ps/fan/meters	169.99
SS-505	Variable 50A switch ps/fan/meter/3-outputs	399.99

DAVIS (DAV)

6152	Vantage Pro2 wireless weather station	\$539.99
6250	Vantage Vue wireless weather station	369.99
7425	Wizard III weather station	199.99
7852	Rain Collector II, 0.01"	69.99
7866	Weatherlink Mac interface/software	.D 4.99
7873	Cig lighter power cord	.....D 1.99
7878-040	6-conductor 40' extension cbl	.....D .99
7881	8-conductor 50' junction box cable	.....D .99
7882	8-conductor 100' junction box cbl	.....D 6.99
7890	Mast mount for anemometer	.....D .69
0131	Weather forecasting quick reference card	9.99
0276	WindScribe electronic wind/temp indicator	99.99
0281	Wind Wizard handheld wind indicator	49.99

DIAMOND (DIA)

SWR/POWER METERS

SX-20C	HF/6m/2m 30/300w meter	\$ 89.99
SX-40C	144-470 (220 w/correction) 30/300w	79.99
SX-100	1.6-60 MHz 30/300/3kw PEP meter	134.99
SX-200	1.8-200 MHz 5/20/200w PEP meter	94.99
SX-240C	1.8-54/140-470 3kw HF/30/300w meter	319.99
SX-400	140-525 MHz 5/20/200w PEP meter	114.99
SX-600	Dual band 1.8-160/140-525 200w PEP mtr	169.99
SX-1100	1.8-160/430-1300MHz 200w PEP mtr	214.99

HT & HANDHELD SCANNER ANTENNAS

RH-3	2m/440 1.75" BNC mini HT duck	\$ 29.99
RH-77CA	2m/440 15" BNC rubber gain ant	24.99
RH-205	2m 1/2 wave 47.5" BNC telescopic ant	29.99
RH-519	2m/440 8" BNC flexible whip	24.99
RH-707	2m/440 8 1/4" BNC tilttable whip	33.99
RH-789	93-1100MHz adjustable freq BNC ant	34.99
RH-951S	2m/440/1.2GHz 14" BNC slim duck	44.99
RHF-40	2m/440 15" BNC flexible rubber gain ant	29.99
SRH-77CA	2m/440 15" SMA rubber gain ant	24.99
SRH-320A	2m/220/440 13.75" SMA flex whip	49.99
SRH-519	2m/440 8" SMA flexible whip	27.99
SRH-789	93-1100MHz adjustable freq SMA ant	34.99
SRH-805	2m/440/1.2GHz 1.75" SMA ant	28.99
SRH-815	2m/440/1.2GHz 6" SMA flex whip	33.99
SRH-940	6m/2m/440 18" SMA flexible whip	39.99
SRH-999	6m/2m/440/1.2GHz 20" SMA flex whip	59.99
SRHF-40	2m/440 15" SMA flexible rubber gain ant	29.99

MONO-BAND MOBILE ANTENNAS

HF-6FX	6m 2.15db 44" mobile antenna	\$ 69.99
HF-50CX	6m 3.5db 71" mobile antenna	.....D 69.99
M-285	2m 3.4db 52.4" mobile antenna	31.99
M-285NMO	2m 3.4db 52.4" NMO mobile ant	31.99
M-685	6m 2.15db 52.4" mobile antenna	31.99
M-685NMO	6m 2.15db 52.4" NMO mobile ant	31.99
NR-22L	2m 6.5db 96.8" mobile antenna	69.99
NR-124NMO	1.2GHz 8.4db 25" NMO antenna	64.99
NR-140BNMO	Black 220 4db 37" NMO ant	53.99



Diamond - continued

AES Price

DUAL-BAND MOBILE ANTENNAS

CR-270A	2m/440 2.15/3.4db 17.2"	mobile ant	\$ 42.99
MR-73SMA	2m/440 2.15/3.4db 10w mini-mag SMA		29.99
MR-77	2m/440 2.15/3.4db 20"	magnetic ant	39.99
MR-77SMA	2m/440 2.15/3.4db 20"	mag w/SMA	44.99
NR-72BNMO	Black 2m/440 2.15db 14"	NMO	44.99
NR-73BNMO	Blk 2m/440 2.15/5.5db 34"	NMO	57.99
NR-770HA	2m/440 3/5.5db 40"	mobile ant	55.99
NR-770HB	Black 2m/440 3/5.5db 40"	mobile	58.99
NR-770HNMO	2m/440 3/5.5db 40"	NMO mobile	57.99
NR-770HBNMO	Blk 2m/440 3/5.5db 40"	NMO	59.99
NR-770HRKS	2m/440 3/5.5db 40"	adhesive mt	109.99
NR-7900A	2m/440 3/7.6db 57"	hi pwr mob ant	84.99
SG-7000A	2m/440 2.15/3.8db 19"	mobile	69.99
SG-7500A	2m/440 3.5/6db 41"	mobile ant	72.99
SG-7500NMO	2m/440 3.5/6db 41"	NMO ant	72.99
SG-7900A	2m/440 5/7.6db 62"	mobile ant	109.99
SG-7900ANMO	2m/440 5/7.6db 62"	NMO ant	114.99
K-400CNMO	Hatch/tkn mt/coax; SG7900ANMO		69.99

TRI-BAND MOBILE ANTENNAS

CR-320A	2m/220/440 2.15/3.8/5.5db 36"		\$ 83.99
CR-320BNMO	Black 2m/220/440 36"	NMO ant	83.99
CR-627B	6m/2m/440 2.15/4.5/7.2db 60"	ant	99.99
CR-627BNMO	6m/2m/440 2.15/4.5/7.2db 60"		99.99
HV-7A	10/6/2m/440 54"	UHF mount mobile ant	109.99
HVC-7	40m loading coil for HV-7A/MV-3A		44.99
HVC-14	20m loading coil for HV-7A/MV-3A		37.99
HVC-18	17m loading coil for HV-7A/MV-3A		37.99
HVC-21	15m loading coil for HV-7A/MV-3A		37.99
NR-2000NA	2m/440/1.2 3.15/6.3/9.7db 39"	N mob	89.99

QUAD-BAND MOBILE ANTENNAS

CR-8900A	10m/6m/2m/440 0/0/2.15/5.5db 50"		\$ 99.99
D-220	2m/440/900/1.2G 35.5"	mobile discone	109.99

ADHESIVE BACKED MOBILE MOUNT

HRKS	SO239 mt/13' coax/SMA/PL259 adapter		\$ 69.99
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MAGNET MOUNTS

DPK-4NM-N	Hvy dty mag mt, cbl, N, 45" max		\$ 54.99
K-702M	Hvy dty mag mt, 6 1/2" dia, 50" max		49.99
SPM-35	Hvy dty mag mt, cable, 45" max		44.99
SPM-NMO	Hvy dty NMO mag mt, cbl, 45" max		49.99

TRUNK LIP MOUNTING KITS

K-400	Hatch/trunk mt; NR/SG antennas		\$ 39.99
K-400C	Hatch/trunk mt w/coax; UHF mount		73.99
K-400CNMO	Hatch/trunk mt w/coax; NMO mt		73.99
K-400S	Hatch/trunk mt w/coax; UHF mt/SMA		79.99
K-400SNMO	Hatch/trunk mt w/coax; NMO/SMA		79.99
K-400-3/8C	Trunk mount w/6.5' cable; 3/8-24		73.99
C-101-3/8C	Extra cable assembly; K400-3/8C		34.99
K-412C	Light duty hatch/tkn mt w/coax; UHF mt		64.99
K-412CNMO	Light duty hatch/tkn mt w/coax; NMO		64.99
K-412S	Light duty hatch/tkn mt w/coax; UHF/SMA		69.99
K-412SNMO	Lt duty hatch/tkn mt/coax; NMO/SMA		69.99
K-600M	Tilt angle SO-239 trunk mt w/cable		59.99
K-600S	Tilt angle SO-239 tnk mt w/cable/SMA		62.99
K-9000LRM	Motorized luggage rack mount		109.99
K-9000LRMO	Motor lug rack mt; o/s hardware		109.99
K-9000TM	Motorized trunk/hatchback mt		109.99

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S	Lug rack SO-239 mt; new type SUV/SMA		\$ 69.99
K-515SNMO	Lug rack NMO mt; new type SUV/SMA		69.99
K-540	Mirror/luggage rack mt; under 45"		35.99
K-540KM	Mirror/luggage rack mt w/coax		59.99
K-550*	Luggage mt; new mini vans (use GLP)		44.99
K-550KM*	Luggage mt w/SO-239 base/coax		69.99
*K-550 series not recommended for Yae ATAS-100/120			

MOUNTING GROUP HARDWARE

BNCJ-SMAP	Low prof blk BNC-F to SMA-M adapt		\$ 9.99
C-101	SO-239 mt, 6.5' RG-316 low-loss coax		37.99
C-101-3/8C-KIT	Upgrades any K400 to K400-3/8C		44.99
C-101-3/8C	Extra cable assembly; K400-3/8C		34.99
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax		37.99
C-104SMA	4' RG-58 ext cbl; SMA male & SO-239		16.99

Diamond - continued

AES Price

C-105SMA	5' RG-58 ext cable; C-101/SMA male		16.99
C-110	10' ext cable; C-101/K-601/K-400-3/8C		19.99
C-110BNC	10' extension cable to BNC male		29.99
C-110SMA	10' RG-58 ext cable; C-101/SMA male		29.99
C-211	SO-239 mt, 6.5' coax, 10' coax extend		49.99
C-213SMA	SO-239 mt, 13.5' RG-316 cbl/SMA male		44.99
C-213SNMO	NMO mt, 13.5' RG-316 low-loss coax		44.99
CRM	Stainless steel right angle bracket w/U-bolts		16.99

MONO-BAND BASE STATION ANTENNAS

A-144S5	2m 5 el 37.5" boom 9db beam		\$ 59.99
KB-144	Side mounting bracket/hardware		24.99
A-430S10	430 10 el 43" boom 13db beam		69.99
KB-430	Side mounting bracket/hardware		22.99
A-430S15	430 15 el 89" boom 14.8db beam		89.99
A-502HB	6m 2 el 2.6' boom 6.3db beam		99.99
CP-22E	2m 6.5db 9' base antenna		54.99
CP-62	6m 5.5db 22' base antenna		219.99
F-22A	2m 6.7db 10.5' base antenna		99.99
F-23H	2m 7.8db 15' base antenna		147.99
F-718A	440 11.5db 15' type N base antenna		199.99
F-1230AII	1.2GHz 13.1db 12' N base ant		179.99
2400-Y12	2.4GHz 12db 8el 15"bm 25w N beam		39.99

DUAL-BAND BASE STATION ANTENNAS

CP-610	6/10m 5.5/3.4db 22' base antenna		\$269.99
X-30A	2m/440 3/5.5db 4.5' base antenna		69.99
X-50A	2m/440 4.5/7.2db 5.6' base antenna		99.99
X-50NA	2m/440 4.5/7.2db 5.6' base N ant		99.99
X-200A	2m/440 6/8db 8.3' base antenna		124.99
X-300A	2m/440 6.5/9db 10' base antenna		149.99
X-300NA	2m/440 6.5/9db 10' base N ant		149.99
X-500HNA	Hvy dty 2m/440 8.3/11.7db 17.8' N ant D		289.99
X-510HDM	2m/440 8.3/11.7db 17.2' hi pwr ant		189.99
X-510HDN	2m/440 8.3/11.7db 17.2' hi pwr N ant		189.99
X-510NJ	143.5-146.5/428-442 8.3/11.7db 17.2' N		199.99

TRI-BAND BASE STATION ANTENNAS

D-130J	50-1300 MHz 200w discone antenna		\$ 99.99
D-130NJ	50-1300 MHz 200w N discone ant		99.99
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3'		159.99
X-3200A	2m/220/440 6/7.8/8db 10' base		189.99
X-6000A	2m/440/1.2 6.5/9/10db 10.5' N		199.99
BB-7V	2-30MHz 22' no radial vertical (use tuner)		399.99
CP-5H	40/20/15/10/6m 11.8' trap vert/radials		399.99
CP-6AR	75/40/20/15/10/6m 15.1' trap vert/radials		439.99
CP-725H	40/15/10/6m 11.67' trap vert/radials		359.99

DUPLEXERS & TRIPLEXERS

MX-37	1.6-470/900-1300 N/N duplexer w/cable		\$ 59.99
MX-62M	HF-6m & 2m/440, 12" cables dplx		74.99
MX-72A	HF-2m/440 dplx/440 N female, 12" cbls		54.99
MX-72D	HF-2m/440 400/150/100w duplexer		48.99
MX-72H	HF-2m/440 duplexer w/12" cables		54.99
MX-72N	HF-2m/440 dplx, 440 type N male, 12" cbls		54.99
MX-324	2m/220/440 triplexer		89.99
MX-610	HF/6m-UHF duplexer		69.99
MX-2000	HF-6m/2m/440 400/400/250w triplexer		89.99
MX-3000	HF-2m/440/1.2 400/200/100w triplexer		79.99
MX-3000N	HF-2m/440/1.2 400/200/100w N triplexer		85.99

ACCESSORIES

CA-23RP	2500MHz 200w N-F/N-M lightning protect D		\$ 29.99
CA-23RS	2500MHz 200w N lightning protector D		29.99
CA-23RW	2500MHz 200w N waterproof protector D		34.99
CX-210A	1.5kw DC-1GHz 2-pos coax switch		49.99
CX-210N	1.5kw DC-3GHz 2-pos N coax switch		79.99
CX-310A	HD 3-pos DC-800MHz coax switch		89.99
DL-30A	15/100w peak 0-500MHz dummy load		44.99
DL-30N	15/100w peak 0-500MHz N dummy load		44.99
GZV-4000	Variable 40A switching ps/meter/spkr		179.99
GZV-6000	Variable 60A switching ps/meter/spkr		369.99
PC-3	10' DC cable w/T-connector for mob rig		11.99
SP-1000	1GHz 400w PEP lightning protector		29.99
SP-3000	3GHz 200w PEP N lightning protector		39.99
SP-3000W	3GHz 200w PEP N waterproof protector		44.99

ECG (ECG)

U-105	Light duty antenna rotor/3-wire		\$ 79.99
U-106	Light duty ant rotor/presets/IR rem/3-wire		89.99
TB-105	Thrust bearing for U-105/U-106		29.99
WIC-1	Wireless inspection camera		169.99
WIC-4	3.28' extension shaft		29.99

EASY-UP (UPS OK) (EAS)

EZ 5-16	5' 16 ga steel mast	pick-up only	\$ 16.99
EZ 29-24S	Stainless double strap chimney mt		29.99
EZ 30-24	Dix wall mt w/extra 3rd leg support		39.99
EZ 31	Heavy duty adjustable eave mount		34.99
EZ 48-3ABX	3' boxed tripod w/pitch pad kit		49.99
EZ 48-5ABX	5' boxed tripod w/pitch pad kit		69.99
EZ 70	Vent mt for 2.5"-3.75" vent; not for PVC		24.99

ELK Antennas (ELK)

2M/440-L5	2m/440 5el quick assembly LP beam		\$124.99
220-L6	220 6el quick assembly LP beam		107.99
440-L8	440 8el quick assembly LP beam		107.99
Elk Bag	Canvas carrying bag for Elk antenna		24.99

GAP VERTICALS (GAP)

DX-VIII	Challenger 75*/40/20/15/12/10/6/2m 31.5'		\$339.99
*80m CW w/capacitor exchange from GAP			
Challenger Counterpoise			39.99
(SYN) 100'	1/2" black double braided rope		9.99
DX-VI	Eagle 40/20/17/15/12/10m 21' rigid		369.99
DX-IV	Voyager 160/80/40/20m 45'; use 350' guy		449.99
Voyager Counterpoise			75.99
(SYN) 350'	3/8" black double braided rope		49.99
Titan DX	75*/40/30/20/17/15/12/10m, 25'		399.99
*80m CW w/capacitor exchange from GAP			
20M MONOGAP	16' 20m vert/radials/ground mt		129.99
40M MONOGAP	31' 40m vert/radials/ground mt		229.99
100' Guy Kit with clamp			17.99
200' Guy Kit with clamp			26.99
Ground Mount	Quick tilt mt for vertical ant		89.99
Ladder Mount	Quick tilt mt; campers/RVs		89.99
ANEM	Adjustable Hear It DSP in line noise elim		189.99
Hear It	DSP noise eliminating speaker		169.99
In Line Module	Hear It DSP in line noise elim		219.99

GB (GBX)

OX-400	4 oz anti-corrosion compound		\$ 2.99
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GRE (GRE)

PSR-100	Standard heldheld scanner		\$ 99.99
PSR-300	Triple trunking handheld scanner D		199.99
PSR-500	Digital triple trunking handheld scanner		399.99
PSR-700	EZ Scan-SD handheld scanner		199.99
PSR-200	Standard mobile/desktop scanner		99.99
PSR-400	Triple trunking mobile/desktop scanner		199.99
PSR-600	Digital triple trunking mob/desk scanner		399.99

GARMIN (GAR)

010-10085-00	Cig lighter cable; GPS-72		\$ 4.99
010-10141-00	PC interface cable; GPS-72		4.99
010-10165-00	PC cable/cig adapt; GPS-72		6.99
010-10206-00	PC interface cbl; eMAP/eTRES		9.99
cfQue-1620	GPS module for Pocket PC's		39.99
GA-27C	Low profile remote ant/cable		29.99
GPS-18USB	Dix GPS sensor; laptop/USB/mag/soft		69.99

GEAR KEEPER (GEA)

RT3-4653	Locking HT Gear Keeper/swivel belt clip		\$ 4.99
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GLEN MARTIN (GME)

TOWERS

M-13A	13" wide alum 10' tower section		\$278.99
CHB-13	Footing assembly for M-13		134.99
CM-1300	Center mount for M-13		41.99
FB-13	Fixed base for M-13		139.99
HB-13	Hinge base for M-13		205.99
H-5	Aluminum Hazer system for M-13		463.99

Glen Martin - continued AES Price

M-18A 18" wide alum 10' tower section	326.99
CHB-18 Footing assembly for M-18	147.99
FB-18 Fixed base for M-18	179.99
HB-18 Hinge base for M-18	309.99
H-6 Aluminum Hazer system for M-18	499.99

TOWER PACKAGES

M-1330A 30' alum tower package w/Hazer .T	1934.99
M-1340A 40' alum tower package w/Hazer .T	2184.99
M-1350A 50' alum tower package w/Hazer .T	2438.99
M-1840A 40' alum tower package w/Hazer .T	2504.99
M-1850A 50' alum tower package w/Hazer .T	2809.99
KB-1000 57" side arm; M-13 series	97.99
KB-1300 57" side arm; M-18 series	101.99
ML-1800 Messenger line kit for GME towers ..	86.99

ROOF-TOP TOWERS

RT-424 4.5' roof-top tower, anodized aluminum	\$196.99
RT-832 8' roof-top tower, anodized aluminum	289.99
RT-936 9' roof-top tower, anodized aluminum	475.99
RT-1832 17.5' roof-top tower, anodized aluminum	638.99
RT-2632 26' roof-top tower, anodized aluminum	1054.99
EL-3744 Concrete L-bolts, set of 8	18.99
LB-3755 Lag bolts, set of 8 (3/8" x 5")	11.99
MC-10 Mast clamp; aluminum, 2 required	29.99
RA-6024 24" side arm for roof towers	50.99
RA-6048 48" side arm for roof towers	66.99
RT-5505 Rubber mat, 18" x 48"	32.99
RT-8900 Non-penetrating roof mount base	539.99

HAZERS FOR ROHN TOWERS

H-2 Heavy duty aluminum Hazer system	\$431.99
H-3 Standard duty aluminum Hazer system ..	327.99
H-4 Heavy duty galv steel Hazer system	416.99
BW-8001 Brake winch for H-2/3/4	96.99
HR-2040 Roller bearing set for Hazers	76.99
HR-6010 TFX plates for H-2/3/4/5	31.99
HS-1301 36" side arm for Hazers	77.99
ML-2500 Messenger line kit for Rohn towers	92.99

LIGHTNING PROTECTION

LR-8400 Premium lightning rod kit	\$119.99
GR-4400 Ground rod wire clamp	8.99
GR-5080 8' x 5/8" ground rod	25.99
LR-8418 Lightning rod point, 1/2" x 18" ...	46.99
LR-8451 Clamp for holding rod to 1 1/2" mast	29.99
LR-8452 Clamp for holding rod to 2" mast	30.99
TL-0470 Terminal lug	2.99

MASTS

M-1040 10' x 2" OD heavy duty galv steel mast T	\$ 99.99
M-1049 9' x 2" OD heavy duty galv steel mast	92.99
MA-1040 10' x 1.92" OD medium duty alum mast T	109.99
MA-1049 9' x 1.92" OD medium duty alum mast	105.99
MA-1050 5' x 2" OD medium duty alum mast	73.99
MA-2010 10' x 2.375" OD heavy duty alum mast T	129.99
MA-2069 9' x 2.375" OD heavy duty alum mast	119.99
MA-5050 5' x 1.31" OD light duty alum mast	49.99
MP-1409 9' heavy duty fiberglass mast	154.99

TOWER CLIMBING EQUIPMENT

FP-56222 MB/LC/2-D/B-C/S-L harness	\$ 81.99
FP-56224 MB/LC/2-D/B-C/L-XL harness	81.99
FP-56422 MB/LC/4-D/B-H-C/S-L harness	94.99
FP-56424 MB/LC/4-D/B-H-C/L-XL harness ...	94.99
FP-66611 TB/LC/6-D/B-H-C-SD/S harness ...	238.99
FP-66612 TB/LC/6-D/B-H-C-SD/M harness ..	238.99
FP-66613 TB/LC/6-D/B-H-C-SD/L harness ...	238.99
FP-66614 TB/LC/6-D/B-H-C-SD/XL harness ..	238.99
FP-75421 TB/LC/4-D/B-H-C/S harness	167.99
FP-75422 TB/LC/4-D/B-H-C/M harness	167.99
FP-75423 TB/LC/4-D/B-H-C/L harness	167.99
FP-75424 TB/LC/4-D/B-H-C/XL harness	167.99
FP-26004 1" x 4' web lanyard	30.99
FP-26006 1" x 6' web lanyard	30.99
FP-29022 1" x 2' Centurion lanyard	34.99
FP-29023 1" x 3' Centurion lanyard	34.99
FP-29024 1" x 4' Centurion lanyard	34.99

Glen Martin - continued AES Price

FP-29026 1" x 6' Centurion lanyard 34.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email. There is a \$10 surcharge on all Glen Martin orders under \$120. There is also a \$75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

Green Light Labs (GLL)

GPS-710 Plug and play GPS for TMD-710A ...	\$129.99
SEP-710-24 24" separation cable kit	18.99

GRUNDIG/ETON (GRU)

FR-100 AM/FM/clock/emergency light .....D	\$ 4.99
FR-250 AM/FM/SW/flashlight/crank/cell cgr .	49.99
FR-600 AM/FM/SW/SAME WX/light/solar/cell cgr	79.99
G-6 Portable AM/FM/SW/aircraft receiver w/ps	99.99
FREE M-400 AM/FM/SW Rcvr w/G-6! limited time!	
GS-350DL Black portable AM/FM/SW Rcvr w/ps .	99.99
FREE M-400 AM/FM/SW Rcvr w/G-S-350DL! limited time!	
Satellit 750 AM/FM/SW/aircraft receiver	299.99

GuyTie (GUY)

2104211 1"OD mast guyline attach point	\$ 4.99
2104213 1.25"OD mast guyline attach point ..	4.99
2104215 1.5"OD mast guyline attach point .	4.99

HARGER (HRG)

GBIS18114AE 1/8" copper entrance ground bar kit	\$ 39.99
GBIS18148AE 1/8" copper station ground bar kit	83.99
GEL3AE Package of 5 HD grounding lugs	26.99
GP1868.78AE 1/8" copper single pt gnd panel kit	76.99
GBX976AE NEMA-4x weatherproof enclosure	127.99

HEIL (HEI)

BM-5-iC Boom mic/sgl headset/adaptor; lcom D	\$ 29.99
BM-10-4 Boom mic/headset (HC-4)	99.99
BM-10-5 Boom mic/headset (HC-5)	99.99
BM-10-iC Boom mic/headset/adaptor; lcom .	119.99
PRO-SET-4 Deluxe boom mic/headset (HC-4)	129.99
PRO-SET-5 Deluxe boom mic/headset (HC-5)	129.99
PRO-SET-iC Dlx boom mic/headset/adaptor; lcom	139.99
PRO-SET-PLUS Dlx boom mic/headset (HC4&5)	199.99
PRO-SET-PLUS-iC Dlx boom mic/hdset (HC4); lcom	219.99
PSE-6 Pro Set Elite boom mic/headset (HC-6)	159.99
PSE-iC Pro Set Elite boom mic/headset; lcom	169.99
AD-1-I Pro-Set 8-pin adapter cord for lcom	20.99
AD-1-IC Pro-Set 8-pin adapter cord; lcom .	20.99
AD-1-ICM ProSet modular adapter cord; lco	20.99
AD-1-IM Pro-Set modular adapter cord; lco	20.99
AD-1-K Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M Pro-Set modular adapt cord; Ken	20.99
AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec .	20.99
AD-1-Y Pro-Set 8-pin adapter cord; Yaesu	20.99
AD-1-Y-M Pro-Set modular adapt cord; Yae	20.99
HTSS Single side Traveler headset	69.99
HTDS Dual side Traveler headset	89.99
HSTA-IC8 Traveler adapter for lcom 8-pin	23.99
HSTA-IM Traveler adapter; lcom modular ...	23.99
HSTA-K8 Traveler adapter for Kenwood 8-pin ...	23.99
HSTA-KM Traveler adapter; Kenwood modular ..	23.99
HSTA-PC Traveler adapter for computer	23.99
HSTA-YM Traveler adapter; Yaesu 8-pin modular	23.99
HSTA-YM6 Traveler adapter; Yaesu 6-pin modular	23.99
HTA-IHT Traveler adapter for lcom HT	23.99
HTA-KHT Traveler adapter for Kenwood HT .	23.99
HTA-VX Traveler adapter; Yaesu VX HT (not VX7)	23.99
GM-4 Goldline dual element studio mic w/HC-4	139.99
GM-5 Goldline dual element studio mic w/HC-5	139.99
HCL-iC Classic 1930's desk mic/studio el; lcom . D	99.99
HM-10-Dual Mic w/HC-4 & HC-5 elements .D	128.99

Heil - continued AES Price

ICM Pre-PRO lcom electret mic w/cable	105.99
CC-1-C 1/8" plug cable for Collins/Drake ...	41.99
CC-1-I 8-pin cable for lcom	35.99
CC-1-I-M Modular cable for lcom	35.99
CC-1-K 8-pin cable for Kenwood	35.99
CC-1-K-M Modular cable for Kenwood	35.99
CC-1-T 4-pin cable for Ten-Tec	35.99
CC-1-Y 8-pin cable for Yaesu	35.99
CC-1-Y-M Modular cable for Yaesu	35.99
PL-2T Topless proline boom	109.99
DT-1 Desk top flush mount	31.99
FL-2 Flange mount for PL-2T	25.99
RS-1 Riser 12" flange mount for PL-2T ..	25.99
SB-2 Small adjustable mic boom	55.99
HM-4 Handi-Mic hand microphone w/HC-4 D	79.99
HM-5 Handi-Mic hand microphone w/HC-5 D	85.99
HM-iC Handi-Mic hand mic/electret element; lco	85.99
HM-PRO Handi-Mic hand mic/broadcast element	85.99
CH-1-I8 8-pin coiled cable for lcom	23.99
CH-1-I-M Modular coiled cable for lcom	23.99
CH-1-K8 8-pin coiled cable for Kenwood ...	23.99
CH-1-K-M Modular coiled cable for Kenwood	23.99
CH-1-Y-M Modular coiled cable for Yaesu .	23.99
PR-20-UT Cardioid dynamic studio mic	99.99
CC-1-XLR-I 3-pin XLR to 8-pin lcom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
PR-40 Broadcast & recording studio microphone	325.99
CC-1-XLR-I 3-pin XLR to 8-pin lcom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40 Windscreen	18.99
PR-781 Dynamic cardioid studio mic	179.99
CC-1-XLR-I 3-pin XLR to 8-pin lcom cable	35.99
CC-1-XLR-K 3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y 3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40 Windscreen	18.99
HQP Quiet Phone Noise cancelling headphones D	79.99
AD-100 Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
ADMY-817* 8pmale - 8pmodular adapt;817/897	25.99
*PTT/mic only, no other functions	
Boom Clip for BM-series	5.99
CB-1-PTT Classic base w/soft PTT switch	69.99
Ear Pads for Pro-Set series	6.99
FS-2 Dual switch foot switch	40.99
Ham Radio Handbook	10.00
HD-AT 6db headph attenuator, 1/8"m-1/4" f adapt	6.99
HS-2 Magnum ergonomic hand switch	29.99
HW-20 20' Heilwire	20.99
SM-1 Shock mount for 1" stem diameter mic	72.99
SM-2B Black shock mt; 2" stem diameter mic	95.99
TM-1 Tri-mount microphone adapter	14.99
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

HIGH SIERRA (HIS)

HS-202CL 2" rcvr lay back adapter; univ mtg bkt Δ	\$ 99.99
HS-214CL 1 1/4" rcvr lay back adapt; univ mtg bkt Δ	49.99
Tripod Deluxe 6' tripod/3/8-24/S0239/8 radials Δ	99.99

House of Deals (HOU)

FL-3232T 32 LED/3 D flashlight	\$ 24.99
FL-8211B 11 LED/3 AAA head/bike lamp ....D	9.99

HUSTLER (HUS)

RM-80 80m CW 400w PEP resonator	\$ 32.99
RM-75 75m phone 400w PEP resonator	32.99
RM-60 60m phone 400w PEP resonator	32.99
RM-40 40m 400w PEP resonator	29.99
RM-30 30m 400w PEP resonator	29.99
RM-20 20m 400w PEP resonator	27.99
RM-17 17m 400w PEP resonator	27.99
RM-15 15m 400w PEP resonator	19.99
RM-12 12m 400w PEP resonator	19.99
RM-11 CB 400w PEP resonator	19.99
RM-10 10m 400w PEP resonator	19.99

Hustler - continued**AES Price**

RM-80S	80m CW 2kw PEP resonator	59.99
RM-75S	75m phone 2kw PEP resonator	59.99
RM-40S	40m 2kw PEP resonator	43.99
RM-20S	20m 2kw PEP resonator	34.99
RM-15S	15m 2kw PEP resonator	30.99
RM-11S	CB 2kw PEP resonator	27.99
RM-10S	10m 2kw PEP resonator	27.99
MO-1	54" mast for fender or deck mount	39.99
MO-2	54" mast for bumper mount	39.99
MO-3	54" no break-over mast	29.99
MO-4	22" mast for special applications	24.99
VP-1	Tri-band adapter	8.99
RSS-2	Resonator spring	14.99
QD-2	Stainless quick disconnect	25.99
L-14-144	12' RG-58, PL-259 to lugs	9.99
L-14-240	20' RG-58, PL-259 to lugs	12.99

STAINLESS 2" MOBILE BALL MOUNTS

SSM-1	Ball & spring, cadmium hardware	\$ 56.99
SSM-2	Ball, cadmium hardware	33.99
SSM-3	Stainless steel spring	31.99

1-1/2" MOBILE BALL MOUNTS

C-32	Chrome plated ball	\$ 22.99
C-30	Chrome plated spring	16.99
C-29	Stainless steel spring	22.99
BM-1	Single strap bumper mt w/C-32	27.99

3/8-24 THREAD MOBILE MOUNTS

HLM	Trunk lip mount w/swivel	\$ 26.99
HOT	Hustloff trunk lip mt w/swivel	27.99
MBM	Super magnet mount w/16' coax	24.99
RVM	Recreational vehicle mount	24.99
TLM	Trunk lip mount	25.99

HF ANTENNAS

4-BTV	40/20/15/10m 21' trap vertical	\$159.99
5-BTV	80/40/20/15/10m 25' trap vertical	189.99
30-MTK	30m trap kit for 4-BTV/5-BTV	49.99
6-BTV	80/40/30/20/15/10m 24' trap vert	209.99

VHF/UHF BASE STATION ANTENNAS

G3-144	2m 3db 7.5' vertical antenna	\$ 79.99
G6-144B	2m 6db 10' vertical antenna	149.99
G6-270R	2m/440 6db 7.5' base station ant	199.99
G7-144	2m 7db 15' vertical antenna	199.99
G7-220	220 MHz 7db 10' vertical antenna	174.99
G6-440	440 MHz 6db 7' vertical antenna	189.99

VHF/UHF MOBILE ANTENNAS

BBG-144	2m 3.4db NMO coil/whip only	\$ 49.99
BBGT-144	2m 3.4db NMO trunk lip mt ant	57.99
BBG-440-5	440 5db NMO coil/whip only ....Δ	24.99
BBGT-440-5	440 5db NMO trunk lip mt ant Δ	24.99
CG-144	2m 3/4-24 ant, 7' high, 5.2db	39.99
CGT-144	2m trunk mt ant, 7' high, 5.2db	59.99
CG-220	220 MHz 3/4-24 ant, 5.2db	39.99
CGT-220	220 trunk mt ant, 5.2db	49.99
LMB-144	2m 3.4db black NMO coil/whip only	23.99
LMB-440-5	440 5db black NMO coil/whip only Δ	14.99
LMC-144	2m 3.4db NMO coil/whip only	25.99
LMC-270	2m/440 2.4/4db NMO coil/whip only	36.99
LMC-440-5	440 5db NMO coil/whip only ....Δ	12.99
LMG-144	2m 3.4db NMO pushpin coil/whip only	27.99
LMG-440-5	440 5db NMO pushpin coil/whip only Δ	12.99
MKR-2	Radial kit for CG/RX/SF-antennas	25.99
MX-2	2m 3.4db black & chrome NMO mag ant	39.99
MX-2B	2m 3.4db all black NMO mag mt ant	44.99
MX-220	220 3.4db blk & chrome NMO mag ant	39.99
MX-270	2m/440 2.4/4db chrome NMO mag mt ant	64.99
MX-440	440 5db blk & chrome NMO mag mt ant Δ	24.99
MX-440B	440 5db all black NMO mag mt ant Δ	29.99
RX-2	2m 3.4db magnetic mount ant	29.99
SF-2	2m 3/4-24 ant, 4' high, 3.4 db	17.99
THF	140-500 MHz 1/4 wave trunk mount ant	26.99
UGM	140-500 MHz 1/4 wave BNC mag mt ant	23.99
UHT-1	140-500 MHz 1/4 wave roof mt ant ....Δ	9.99

Hustler - continued**AES Price****CB & MONITOR ANTENNAS**

1C-11	White trunk mount CB antenna	\$ 19.99
1C-11B	Black trunk mt CB antenna	19.99
1C-56	102" stainless whip	pick-up only 22.99
1C-100	White magnetic mount CB antenna	25.99
1C-100B	Black magnetic mt CB antenna	25.99
FG-27S	48" CB whip	17.99
HQ-27	Power Packer 3/4-24 CB whip	23.99
HQ-27M	Power Packer trunk mt CB antenna	42.99
HQD	Dual fg mirror mount CB antenna	59.99
HQT	Single fg mirror mount CB antenna	33.99
RQM	Magnetic mount CB antenna	23.99
RTG-27L	25" CB antenna w/rain gutter mt Δ	14.99
RTM	25" magnetic mount CB antenna	19.99
RTS-27L	25" CB antenna w/roof mount	28.99
SCB/BLK	46" black CB whip	39.99
SCB/RED	46" red CB whip	D 24.99
SCB/WHT	46" white CB whip	D 19.99
SCB-S/BLK	35" black CB whip	39.99
SCB-S/RED	35" red CB whip	D 24.99
SCB-S/WHT	35" white CB whip	D 19.99
DCL-B	Discone monitor ant/50' coax/BNC plug	39.99
DCX	Discone monitor ant; 40-700 MHz	26.99
MOR-B	Roof/deck mt tri-band BNC monitor ant	24.99
MOT-B	Trunk lip mt tri-band BNC monitor ant	25.99
MRM-B	Magnet mt tri-band BNC monitor ant	21.99

HY-GAIN (HYG)**HF BEAM ANTENNAS**

LJ-103BA	3el 7.9db 8' boom 10m beam	\$159.99
LJ-105CA	5el 10.8db 24' boom 10m beam	279.99
LJ-153BA	3el 7.9db 12' boom 15m beam	199.99
LJ-204BA	4el 8.2db 26' boom 20 or 17m beam	499.99
TH-3JRS	3el 600w PEP 20/15/10m beam	359.99
TH-3MK4	3el 8db 14' boom 20/15/10m beam	469.99
TH-5MK2	5el 8.3db 19' boom 20/15/10m beam	699.99
TH-7DX	7el 8.77db 24' boom 20/15/10m beam	799.99
BN-86	3-30MHz balun for HF beam	79.99

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ	40/20/15/10m 18' vertical ant	\$179.99
AV-18AVQ II	80/40/20/15/10m vertical ant	239.99
AV-18HT	HyTower 80/40/20/15/10m 53' vert T*	949.99

*AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.

AV-18HT-JR	HyTower Jr 80/40/20/15/10m 39' vert	349.99
AV-620	20/17/15/12/10/6m 22.5' vertical	299.99
AV-640	40/30/20/17/15/12/10/6m 25.5' vert	399.99
DX-88	80/40/30/20/17/15/12/10m 25' vert	369.99

VHF/UHF ANTENNAS

DB-218SAT	VHF/UHF Oscar Link system	\$529.99
VB-25FM	5el 11.2db 75" boom 2m beam	59.99
VB-64DX	4el 10.4db 12' boom 6m beam	144.99

ANTENNA ROTORS

AR-40	3 sq ft antenna rotor/5-wire	\$329.99
CD-45-II	8.5 sq ft antenna rotor/8-wire	429.99
HAM-IV	15 sq ft antenna rotor/8-wire	619.99
HAM-V	Digital 15 sq ft antenna rotor/8-wire	929.99
HDR-300A	Hvy duty dig 25 sq ft rotor/8-wire	1349.99
T-2X	Tailtwister 20 sq ft antenna rotor/8-wire	729.99
T-2XD	Tailtwister dig 20 sq ft ant rotor/8-wire	1179.99

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1	Dig rotor control; CD-45/HAM-IV/T-2X	\$699.99
MSHD	Lwr mast support; HAM-IV/V/T-2X/XD	109.99
MSLD	Lower mast support; CD-45-II/AR-40	49.99
TSP-1	Tower spacer plate	34.99

Hy-Gain - continued**AES Price**

See JSC or Belden for rotor cable

ICOM (ICO)

IC-7800	Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps (BET) I-Mate Message accessory	Call/Web 74.99
CT-17	CI-V level converter	149.99
HM-36	Scanning hand mic	89.99
SM-50	Dynamic desk microphone	279.99
SP-20	Speaker w/audio filters	259.99
SP-23	Speaker w/audio filters	219.99
IC-7700	200w single RX HF/6m Xcvr/ps (BET) I-Mate Message accessory	Call/Web 74.99
CT-17	CI-V level converter	149.99
HM-36	Scanning hand mic	89.99
SM-50	Dynamic desk microphone	279.99
SP-20	Speaker w/audio filters	259.99
SP-23	Speaker w/audio filters	219.99
IC-7600	100w HF/6m transceiver	Call/Web
PS-126	25A 4-pin switching power supply	Call/Web
AH-4	80-6m 120w auto wire ant tuner	Call/Web
AH-2B	Whip w/mt; 40-6m use tuner	399.99
CT-17	CI-V level converter	149.99
SM-50	Dynamic desk microphone	279.99
SP-23	Speaker w/audio filters	219.99
IC-718	HF Xcvr/SW Rcvr/mic w/DSP (BET) 706 Tune Control for IC-718	Call/Web 32.99
(WAR) OBF-703/718-DIY	CW&SB Collins flts	249.99
PS-125	25A switching power supply	Call/Web
AH-4	80-6m 120w auto wire ant tuner	Call/Web
AH-2B	Whip w/mt; 40-6m use tuner	399.99
AT-180	Auto coax antenna tuner; HF+6m	Call/Web
OPC-598	23' extension cable; AT-180 ..D	59.99
CR-338	High stability crystal unit	89.99
CT-17	CI-V level converter	149.99
FL-52A	500 Hz 455 KHz IF CW filter	199.99
FL-53A	250 Hz 455 KHz IF CW filter	199.99
FL-222	1.9 KHz 455 KHz IF SSB filter	229.99
FL-257	3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-718		
MB-5	Mobile mount	59.99
MB-23	Side mount carrying handle	19.99
OPC-025D	Extra DC cable	36.99
OPC-599	7+8-pin to 13-pin adapter	66.99
SM-50	Dynamic desk microphone	279.99
SP-5	Mobile speaker	59.99
SP-20	Speaker w/audio filters	259.99
SP-23	Speaker w/audio filters	219.99
UT-102	Voice synthesizer	79.99
IC-703 Plus	10w mni HF+6m Xcvr/tnr/DSP D (WAR) OBF-703/718-DIY CW&SB Collins flts	Call/Web 249.99
AH-4	80-6m 120w auto wire ant tuner	Call/Web
AH-2B	Whip w/mt; 40-6m use tuner	399.99
AT-180	Auto coax antenna tuner; HF+6m	Call/Web
OPC-598	23' extension cable; AT-180 ..D	59.99
CT-17	CI-V level converter	149.99
FL-52A	500 Hz 455 KHz IF CW filter	199.99
FL-53A	250 Hz 455 KHz IF CW filter	199.99
FL-222	1.9 KHz 455 KHz IF SSB filter	229.99
FL-257	3.3 KHz 455 KHz IF SSB filter	199.99
Suggest dealer installation of filters in IC-703 series		
HM-154T	TTP microphone	84.99
LC-156	Back pack carrying case	99.99
MB-62	Mounting bracket for main unit	32.99
MB-63	Mounting bracket for control panel Δ	25.99
MB-72	Carrying handle	19.99
MB-120	Mounting base platform	69.99
OPC-581	11.5' separation cable	69.99
OPC-587	16' separation cable	89.99
OPC-599	7+8-pin to 13-pin adapter	66.99
OPC-742	13-pin cable	D 49.99
OPC-1229	Extra DC cable; IC-703/Plus ..Δ	34.99
OPC-1248	IC-703 to PS-125 cable	19.99
RMK-706	Package; MB-62/MB-63/OPC-581 Δ	84.99
SM-50	Dynamic desk microphone	279.99

Icom - continued

AES Price

OPC-589	8-pin to jack adapt; SM-6/8/20/50	39.99
SP-10	Slim-line external speaker	76.99
UT-102	Voice synthesizer	79.99
IC-706 Mk II-G Mini HF Xcvr/6m/2m/440/DSP D Call/Web		
RMK-706 included with IC-706 Mk II-G purchase until gone!		
(BET) 706 Tune Control for IC-706 series	...	32.99
(W4R) OBP-UNIV	Speech compressor for hand mic	69.99
PS-125	25A switching power supply	Call/Web
AH-4	80-6m 120w auto wire ant tuner	Call/Web
AH-2B	Whip w/mt; 40-6m use tuner	399.99
AT-180	Auto coax antenna tuner; HF+6m	Call/Web
OPC-598	23' extension cable; AT-180	59.99
CR-282	High stability crystal unit; Mk II G	179.99
Suggest dealer install; CR-282, IC-706 Mk II-G		
CT-17	CI-V level converter	149.99
FL-100	500 Hz 9 MHz IF CW filter	129.99
FL-101	250 Hz 9 MHz IF CW filter	129.99
FL-103	2.8 KHz 9 MHz IF SSB filter	129.99
FL-223	1.9 KHz 9 MHz IF SSB filter	119.99
FL-232	350 Hz 9 MHz IF CW/RTTY filter	119.99
HM-154T	TTP microphone	84.99
LC-156	Back pack carrying case	99.99
MB-62	Mounting bracket for main unit	32.99
MB-63	Mounting bracket for control panel	25.99
MB-72	Carrying handle; Mk II-G only	19.99
MB-120	Mounting base platform	69.99
OPC-025D	Extra DC cable	36.99
OPC-581	11.5' separation cable	69.99
OPC-587	16' separation cable	89.99
OPC-599	7+8-pin to 13-pin adapter	66.99
OPC-742	13-pin cable	49.99
RMK-706	Package; MB-62/MB-63/OPC-581	84.99
SM-50	Dynamic desk microphone	279.99
OPC-589	8-pin to jack adapt; SM-6/8/20/50	39.99
SP-10	Slim-line external speaker	76.99
UT-102	Voice synthesizer	79.99
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr		
RMK-7000 included with IC-7000 purchase!		
(BET) 7000 Screwdriver Control* for IC-7000	...	84.99
*Requires 7000 Tune Control also		
(BET) 7000 Tune Control for IC-7000	...	54.99
PS-126	25A 4-pin switching power supply	Call/Web
AH-4	80-6m 120w auto wire ant tuner	Call/Web
AH-2B	Whip w/mt; 40-6m use tuner	399.99
AT-180	Auto coax antenna tuner; HF+6m	Call/Web
OPC-598	23' extension cable; AT-180	59.99
CT-17	CI-V level converter	149.99
HM-154T	TTP microphone	84.99
LC-156	Back pack carrying case	99.99
MB-62	Mounting bracket for main unit	32.99
MB-105	Remote head bracket	14.99
MB-106	Carry handle	24.99
MB-120	Mounting base (MB-105 required)	69.99
OPC-599	7+8-pin to 13-pin adapter	66.99
OPC-742	13-pin cable	49.99
OPC-1443	11.5' remote cable	39.99
OPC-1444	16' remote cable	79.99
OPC-1457	Extra DC cable	39.99
RMK-7000	Package; MB-62, MB-105, OPC-1443	89.99
SM-50	Dynamic desk microphone	279.99
OPC-589	8-pin to jack adapt; SM-6/8/20/50	39.99
SP-10	Slim-line external speaker	76.99
IC-7200 HF/6m rugged Xcvr		
PS-126	25A 4-pin switching power supply	Call/Web
AH-4	80-6m 120w auto wire ant tuner	Call/Web
AH-2B	Whip w/mt; 40-6m use tuner	399.99
AT-180	Auto coax antenna tuner; HF+6m	Call/Web
OPC-598	23' extension cable; AT-180	59.99
CT-17	CI-V level converter	149.99
MB-116	Front handles	86.99
MB-117	Carrying handle	29.99
MB-118	Mobile mounting bracket	29.99
OPC-599	7+8-pin to 13-pin adapter	66.99
OPC-1457	Extra DC cable	39.99

Icom - continued

AES Price

SM-50	Dynamic desk microphone	279.99
SP-10	Slim-line external speaker	76.99
SP-20	Speaker w/audio filters	259.99
SP-23	Speaker w/audio filters	219.99
AH-710	1.9-30 MHz 80' folded dipole/98' coax	299.99
OPC-025A	DC cable; IC725/735/751A/etc.	29.99
PW-1	160-15+6m linear amplifier/ps/tuner	Call/Web
RECEIVERS		
R-6-16	Handheld receiver/cell blkd	Call/Web
R-6-20*	Rcvr/restricted sales! special order	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
CP-18A	Cig lighter cable	34.99
CS-R6	Cloning software	49.99
OPC-474	Cloning cable (R-6 to R-6)	19.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
CT-17	CI-V level converter	149.99
HP-4	Lightweight headphones	34.99
LC-146A	Carrying case	29.99
SP-13	Earphone	5.99
RX-7-05	Handheld receiver/cell blkd	Call/Web
RX-7-10*	Rcvr/restricted sales! special order	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
BP-244	3.7v 1100mah lith ion battery	39.99
BP-262	Battery case for 3 AA's	24.99
CP-18A	Cig lighter cable	34.99
CS-RX7	Cloning software/USB cable; RX-7	49.99
CT-17	CI-V level converter	149.99
HP-4	Lightweight headphones	34.99
LC-170	Carrying case	29.99
OPC-474	Cloning cable (RX-7 to RX-7)	19.99
OPC-478U/UC	PC USB cable	66.99
SP-13	Earphone	5.99
R-20-06	150KHz-3.3GHz handheld Rcvr/cell blkd	Call/Web
R-20-11*	Rcvr/restricted sales! special order	Call/Web
BC-156-02	Desktop charger	89.99
BP-206	Extra 3.7v 1650mah lith ion batt	69.99
CP-18A	Cig lighter cable	34.99
CS-R20	Cloning software/USB cable; R-20	59.99
CT-17	CI-V level converter	149.99
LC-158	Carrying case	34.99
MB-86	Swivel belt clip	10.99
SP-13	Earphone	5.99
R-1500-05	Receiver w/remote head/cell blkd	Call/Web
Bon CS4.5 included with R-1500-05 purchase!		
R-1500-10*	Rcvr/restricted sales! special order	Call/Web
AH-7000	25-1300 MHz discone/50' coax	169.99
AH-8000	100-3300MHz discone ant/49'cbl/N	249.99
BON CS-4.5	Bonito software	76.99
CP-12L	Right angle cig cable w/filter	39.99
OPC-254L	Right angle mini DC pwr cable	19.99
OPC-441	16.4' speaker extension cable	39.99
SP-10	Slim-line external speaker	76.99
UT-106	Plug-in DSP unit	149.99
UT-108	DTMF decoder unit	39.99
UT-118	Digital board	219.99
UT-122	P-25 digital board	199.99
R-2500-05	Advanced Rcvr w/rem head/cell blkd	Call/Web
Bon CS4.5 included with R-2500-05 purchase!		
R-2500-10*	Rcvr/restricted sales! special order	Call/Web
AH-7000	25-1300 MHz discone/50' coax	169.99
AH-8000	100-3300MHz discone ant/49'cbl/N	249.99
BON CS-4.5	Bonito software	76.99

Icom - continued

AES Price

CP-12L	Right angle cig cable w/filter	39.99
OPC-254L	Right angle mini DC pwr cable	19.99
OPC-441	16.4' speaker extension cable	39.99
SP-10	Slim-line external speaker	76.99
UT-106	Plug-in DSP unit	149.99
UT-108	DTMF decoder unit	39.99
UT-118	Digital board	219.99
UT-122	P-25 digital board	199.99
BC-135	Desktop cgr w/adaptor cup; R-3	39.99
CS-R3	Win programming software; R-3	4.99
CS-R5	Win programming software; R-5	29.99
CS-R10	DOS programming software; R-10	.19
LC-151	Carrying case; R-3	2.99
R-75	.03-60 MHz shortwave Rcvr/DSP	Call/Web
CR-282	High stability crystal unit	179.99
CT-17	CI-V level converter	149.99
FL-52A	500 Hz 455 KHz IF CW filter	199.99
FL-53A	250 Hz 455 KHz IF CW filter	199.99
FL-100	500 Hz 9 MHz IF CW filter	129.99
FL-101	250 Hz 9 MHz IF CW filter	129.99
FL-103	2.8 KHz 9 MHz IF SSB filter	129.99
FL-222	1.9 KHz 455 KHz IF SSB filter	229.99
FL-223	1.9 KHz 9 MHz IF SSB filter	119.99
FL-232	350 Hz 9 MHz IF CW/RTTY filter	119.99
FL-257	3.3 KHz 455 KHz IF SSB filter	199.99
MB-5	Mobile mount	59.99
MB-23	Side mount carrying handle	19.99
RS-R75	Windows software/RS-232 cable	49.99
OPC-478	PC RS-232C cable	49.99
SP-23	Speaker w/audio filters	219.99
UT-102	Voice synthesizer	79.99
R-8500*	Rcvr/restricted sales! special order	Call/Web
AH-7000	25-1300 MHz discone/50' coax	169.99
AH-8000	100-3300MHz discone ant/49'cbl/N	249.99
CR-293	High stability xtal unit	329.99
FL-52A	500 Hz CW filter	199.99
MB-23	Side mount carrying handle	19.99
SP-23	Speaker w/audio filters	219.99
UT-102	Voice synthesizer	79.99
R-9500-02	Deluxe Receiver	special order
R-9500-06*	Rcvr/restricted sales! special order	Call/Web
AH-7000	25-1300 MHz discone/50' coax	169.99
AH-8000	100-3300MHz discone ant/49'cbl/N	249.99
CT-17	CI-V level converter	149.99
SP-20	Speaker w/audio filters	259.99
UT-122	P-25 digital board	199.99
*United States government agencies ONLY may purchase unblocked models of R-6/R-20/R-1500/R-2500/R-8500/R-9500/RX-7 for official government use only. State and local governments may purchase R-2500/R-9500 unblocked only also. Mail or FAX purchase order to AES. Exports: inquire.		
BC-96	Wireless mic holder; IC-2100H	.69
CS-D800	Cloning software; ID-800	49.99
FL-132	500 Hz main Rcvr CW filter; IC910H	109.99
FL-133	500 Hz sub band Rcvr CW filter; 910H	109.99
HM-133S	Extra TTP mic; IC-2100H	99.99
MB-84	Remote controller bracket; IC-2720H	9.99
OPC-1156	11.5' separation cable; IC-2720H	14.99
OPC-1384	RS-232C data cable; ID-800	29.99
UX-910	10w 1.2GHz module; IC-910H	569.99
IC-2200H 65w 2m FM Xcvr w/WX alert		
CS-2200H	Windows cloning software	59.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
MB-28H	Mobile mounting bracket	29.99
OPC-347	23' DC cable	49.99
OPC-440	16.4' mic extension cable	89.99
OPC-441	16.4' speaker extension cable	39.99
OPC-474	Radio to radio cloning cable	19.99
OPC-589	8-pin mic jack adapter cable	39.99
OPC-1132	9.8' DC cable	36.99
SP-10	Slim-line external speaker	76.99

Icom - continued		AES Price
UT-108	DTMF decoder unit	39.99
UT-118	Digital board	219.99
IC-V8000	75w 2m FM Xcvr w/WX alert/scan	Call/Web
CS-V8000	Windows cloning software	39.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
OPC-347	23' DC cable	49.99
OPC-440	16.4' mic extension cable	89.99
OPC-441	16.4' speaker extension cable	39.99
OPC-474	Radio to radio cloning cable	19.99
OPC-589	8-pin mic jack adapter cable	39.99
OPC-1132	9.8' DC cable	36.99
SP-10	Slim-line external speaker	76.99
UT-108	DTMF decoder unit	39.99
V8000-MMB	Extra mobile bracket	34.99
IC-208H	55w 2m/50w 440 FM Xcvr/WX alert	Call/Web
CS-208	Win cloning software	39.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
MB-28H	Mobile mounting bracket	29.99
MB-58	Remote controller bracket	44.99
MB-120	Mounting base platform; MB-58	69.99
OPC-347	23' DC cable	49.99
OPC-440	16.4' mic extension cable	89.99
OPC-441	16.4' speaker extension cable	39.99
OPC-474	Radio to radio cloning cable	19.99
OPC-589	8-pin mic jack adapter cable	39.99
OPC-601R	23' separation cable	79.99
OPC-1132	9.8' DC cable	36.99
SP-10	Slim-line external speaker	76.99
IC-2820H	50w 2m/50w 440 FM Xcvr	Call/Web
CS-2820	Win cloning software	39.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
MB-120	Mounting base platform	69.99
OPC-347	23' DC cable	49.99
OPC-440	16.4' mic extension cable	89.99
OPC-441	16.4' speaker extension cable	39.99
OPC-474	Radio to radio cloning cable	19.99
OPC-589	8-pin mic jack adapter cable	39.99
OPC-1132	9.8' DC cable	36.99
OPC-1529R	Data communications cable	34.99
SP-10	Slim-line external speaker	76.99
UT-123	DV mode & GPS receiver	Call/Web
V8000-MMB	Extra mobile bracket	34.99
ID-1	10w 1.2GHz FM/128k analog/digital Xcvr	Call/Web
MB-28H	Mobile mounting bracket	29.99
OPC-347	23' DC cable	49.99
OPC-440	16.4' mic extension cable	89.99
OPC-441	16.4' speaker extension cable	39.99
OPC-1132	9.8' DC cable	36.99
SP-10	Slim-line external speaker	76.99
ID-880H	50w 2m/440 D-Star ready Xcvr	Call/Web
MB-120	Mounting base platform	69.99
OPC-347	23' DC cable	49.99
OPC-440	16.4' mic extension cable	89.99
OPC-441	16.4' speaker extension cable	39.99
OPC-474	Cloning cable (radio to radio)	19.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
OPC-589	8-pin mic jack adapter cable	39.99
OPC-1132	9.8' DC cable	36.99
OPC-1529R	Data communications cable	34.99
SP-10	Slim-line external speaker	76.99
IC-80AD	5w 2m/440 D-Star ready HT	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
BC-139	Desk rapid charger	99.99
BP-216	Battery case for 2 AA	39.99
BP-217	7.4v 1300mah lith ion battery	99.99
CP-19R	Cig lighter cable w/filter	49.99
HM-75A	Remote control microphone	79.99
HM-131	Spkr/mic/earph jack/revolving clip	42.99
HM-189GPS	Spkr/mic w/GPS	199.99
HS-85	Headset w/VOX	99.99

Icom - continued		AES Price
LC-163	Carrying case	42.99
MB-86	Swivel belt clip	10.99
OPC-254L	Right angle mini DC pwr cable	19.99
OPC-474	Cloning cable (radio to radio)	19.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
OPC-1529R	Data communications cable	34.99
SP-13	Earphone	5.99
IC-91A	5w 2m/440 D-Star upgradeable HT	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
BC-139	Desk rapid charger	99.99
BP-216	Battery case for 2 AA	39.99
BP-217	7.4v 1300mah lith ion battery	99.99
CP-19R	Cig lighter cable w/filter	49.99
HM-75A	Remote control microphone	79.99
HM-128	Earphone+microphone	29.99
HM-131	Spkr/mic/earph jack/revolving clip	42.99
HS-85	Headset w/VOX	99.99
LC-163	Carrying case	42.99
OPC-474	Cloning cable (radio to radio)	19.99
OPC-1529R	Data communications cable	34.99
RS-91	Rem control software/RS-232 cable	64.99
SP-13	Earphone	5.99
UT-121	Digital board for D-Star	219.99
IC-92AD	5w 2m/440 D-Star ready HT	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
BC-177	Desk rapid charger	84.99
BP-256	7.4v 1620mah lith ion battery	99.99
BP-257	Battery case for 2 AA	44.99
CP-19R	Cig lighter cable w/filter	49.99
HM-75A*	Remote control microphone	79.99
HM-131*	Spkr/mic/earph jack/revolving clip	42.99
HM-174	Waterproof spkr/mic	129.99
HM-175GPS	Waterproof spkr/mic w/GPS	219.99
HS-85*	Headset w/VOX	99.99
LC-168	Carrying case	34.99
OPC-254L	Right angle mini DC pwr cable	19.99
OPC-474	Cloning cable (radio to radio)	19.99
OPC-1797	Plug adapt cable; 2pin spkr/mic	49.99
RS-92	Rem control software/RS-232 cable	99.99
SP-13*	Earphone	5.99
*These accessories require OPC-1797 with IC-92AD		
D-STAR REPEATERS		
ID-RP2C	Repeater controller	Call/Web
ID-RP2D	1.2GHz data repeater special order	Call/Web
ID-RP2V	1.2GHz voice repeater special order	Call/Web
ID-RP2000V	2m voice repeater	Call/Web
ID-RP4000V	440MHz voice repeater	Call/Web
RS-RP2G2	G2 D-Star gateway software	Call/Web
IC-V80	5.5w 2m FM HT/battery/charger	Call/Web
IC-V80 Sport	2m FM HT/alk case	Call/Web
BC-191	Desktop quick charger for BP-264	69.99
BC-193	Desktop quick charger for BP-265	64.99
BP-263	Battery case	29.99
BP-264	7.2v 1400mah NiMH battery	42.99
BP-265	7.2v 1900mah lith ion battery	59.99
CP-17L	Right angle cig cable for charger	26.99
CS-V80	Cloning software for IC-V80	49.99
OPC-474	Cloning cable (HT to HT)	19.99
OPC-478U/UC	PC USB cable	66.99
HM-158L	Rt angle spkr/mic/earph jack/clip	46.99
HS-94	Ear-piece style headset	24.99
OPC-2004	Plug adapter cable for HS-94	29.99
OPC-515L	Right angle DC cord for charger	22.99
IC-V82	7w 2m FM HT/battery/charger	Call/Web
IC-U82	5w 440 FM HT/battery/charger	Call/Web
BC-119-N01	Desk charger (adapter required)	69.99
AD-94-11	Adapter cup for BC-119-N01	12.99
AD-101	Adapt cup; BP-211N/BC-119-N01	14.99
BC-144N/BC144N51	Rapid desk charger	65.99
BP-208N	Battery case	19.99
BP-209N	7.2v 1100mah 5.5w battery	42.99
BP-210N	7.2v 1650mah 5.5w battery	54.99
BP-222N	7.2v 600mah 5.5w battery	34.99

Icom - continued		AES Price
CS-V82	Cloning software for IC-V82/U82	44.99
OPC-474	Cloning cable (HT to HT)	19.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable	66.99
HM-46	Slim-line speaker/mic	54.99
HM-54	Heavy duty spkr/mic	74.99
HM-75A	Remote control microphone	79.99
HM-128L	Rt angle plug earphone+mic	28.99
HM-158L	Rt angle spkr/mic/earph jack/clip	46.99
HS-85	Headset w/VOX	99.99
HS-94	Ear-piece style headset; use w/VS-1L	24.99
VS-1L	Right angle VOX-PTT unit for HS-94	42.99
MB-86	Swivel belt clip	10.99
MB-103	Spring loaded belt clip; N-series batts	12.99
SP-13	Earphone	5.99
UT-108	DTMF decoder unit	39.99
UT-118	Digital board	219.99
IC-T70A	5w 2m/440 FM HT/battery/charger	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
BC-191	Desktop quick charger for BP-264	69.99
BC-193	Desktop quick charger for BP-265	64.99
BP-263	Battery case	29.99
BP-264	7.2v 1400mah NiMH battery	42.99
BP-265	7.2v 1900mah lith ion battery	59.99
CP-12L	Right angle cig cable w/filter	39.99
CP-17L	Right angle cig cable for charger	26.99
CP-19R	Cig lighter cable w/filter	49.99
CS-T70	Cloning software for IC-T70A	49.99
OPC-474	Cloning cable (HT to HT)	19.99
OPC-478U/UC	PC USB cable	66.99
HM-131	Spkr/mic/earph jack/revolving clip	42.99
HS-94	Ear-piece style headset	24.99
OPC-2006	Plug adapter cable for HS-94	29.99
LC-174	Carrying case	44.99
OPC-254L	Right angle mini DC pwr cable	19.99
OPC-515L	Right angle DC cord for charger	22.99
AD-81	Batt adapter for rapid cgr; IC-T2H	19.99
AD-101	Adapter cup; BP-211N/BC-119-N01	14.99
BC-110A/BC-74	Extra wall charger; ICT7H	25.99
BC-119-N11	Nicad/NiMH desk cgr (use adapt)	49.99
BC-133	Drop-in trickle charger; IC-T2H	2.99
BC-122A	AC adapter for BC-133	1.99
BP-170	Battery case; IC-T7H Sport	39.99
BP-180	7.2v 600mah batt; IC-T7H Sport	89.99
BP-200L	9.6v 760mah NiMH battery; T81A	89.99
BP-226	Battery case for 5 AA for IC-V85	39.99
BP-227	7.2v 1700mah lith ion batt; IC-V85	69.99
BP-243	3.7v 1800mah lith ion batt; IC-P7A	29.99
CP-21LR	Cig cable w/filter; IC-P7A	34.99
CS-P7	Windows cloning software; IC-P7A	19.99
CS-V8	Cloning software for IC-V8	39.99
CS-V85	Cloning software for IC-V85	39.99
FA-1443B	Extra 2m/440 duck; IC-T7H Sport	34.99
HM-46L	Slim-line spkr/mic, rt angle plug	39.99
HS-51	Headset w/VOX for IC-V8	69.99
LC-128	Vinyl case; IC-W32A	14.99
LC-145	Carrying case for IC-T2H	4.99
LC-161	Carrying case; IC-P7A	19.99
LC-167	Carrying case for IC-V85	29.99
LCF3G Swivel	Leather case w/swivel; ICV8	24.99
MB-74N	Spring loaded belt clip; orig batts	6.99
NCP-1	Nylon chest pack; IC-T7H Sport	19.99
OPC-782	Plug adapter cable; IC-P7A	9.99
IC-T90A	5w 6m/2m/440 FM HT/lith ion	Call/Web
AD-92SMA	SMA- BNC adapter	19.99
BC-139	Desk rapid charger	99.99
BP-216	Battery case for 2 AA	39.99
BP-217	7.4v 1300mah lith ion battery	99.99
CP-19R	Cig lighter cable w/filter	49.99
CS-T90A	Windows cloning software; IC-T90A	39.99
OPC-474	Cloning cable (radio to radio)	19.99
OPC-478	PC RS-232C cable	49.99
OPC-478U/UC	PC USB cable (XP only)	66.99
HM-46	Slim-line speaker/mic	54.99

Icom - continued

AES Price

HM-75A Remote control microphone	79.99
HM-128 Earphone+microphone	29.99
HM-131 Spkr/mic/earph jack/revolving clip	42.99
HS-85 Headset w/VOX	99.99
HS-94 Ear-pc headset; use w/VS-1	24.99
VS-1 VOX-PTT unit for HS-94	34.99
LC-152A Carrying case	19.99
SP-13 Earphone	5.99

ACCESSORIES

AG-25 2m mast mounted GaSFET preamp	\$189.99
AG-35 430 MHz mast mounted preamp	199.99
AH-7000 25-1300 MHz discone ant/50' coax D	169.99
AH-8000 100-3300MHz discone ant/49'cbl/N	249.99
CT-17 CI-V level converter	149.99
PS-125 25A switching power supply	Call/Web
PS-126 25A 4-pin switching power supply ...	Call/Web
SM-50 Dynamic desk microphone	279.99
SP-5 Mobile speaker	59.99
SP-10 Slim-line external speaker	76.99
SP-20 Speaker w/audio filters	259.99
SP-23 Speaker w/audio filters	219.99

CONSUMER ELECTRONICS

A-24 5w air handheld w/NiMH battery	\$349.99
IC-M72 Waterproof 6w VHF marine handheld	199.99

Dave INGRAM (ING)

Keys II Book	\$ 16.99
QRP Romps Book	18.99
World of Keys Book	18.99
Your Guide to HF Fun Book	16.99

INTERNET LABS (INT)

DV-AP Access point dongle for D-Star radios	\$249.99
DV-Dongle Computer dongle; internet D-Star	199.99

ISOTRON (ISO)

160C 160m 9.5' x 16" x 15" 100 KHz bandwidth ant	\$173.99
80 80m 32" x 16" x 15" 110 KHz bandwidth ant	109.99
40 40m 22" x 16" x 15" 250 KHz bandwidth ant	88.99
20 20m 21" x 8" x 4" 350 KHz bandwidth ant	78.99
15 15m 21" x 1.5" x 4" 450 KHz bandwidth ant	78.99
10 10m 16" x 1.5" x 4" 1 MHz bandwidth ant	78.99
6 6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant	78.99
80/40 Combo 80/40m 32" x 16" x 30" ant ...	188.99
40/20 Combo 40/20m combo antenna	167.99
20/15/10 Combo 20/15/20m combo ant	198.99

JSC (JSC)

1318 18ga solid 450 ohm ladder line .per ft. ....	.29
1318 .....100 ft. cut	24.99
1318 .....1000 ft. Roll	199.99
1313 14ga stranded 450 ohm ladder line per ft. ....	.74
1313 .....100 ft. cut	69.99
1313 .....1000 ft. Roll	499.99
3030 RG-8U coax cable .....per ft. ....	.94
3030 .....100 ft. Roll	89.99
3030 .....500 ft. Roll	399.99
3060 Mini RG-8U coax cable .....per ft. ....	.44
3060 .....100 ft. cut	39.99
3060 .....1000 ft. Roll	299.99
3110 RG-58AU coax cable .....per ft. ....	.29
3110 .....100 ft. cut	27.99
3110 .....1000 ft. Roll	269.99
3500 Equiv 9913 coax cable .....100 ft. Roll	99.99
3500 .....250 ft. Roll	219.99
3500 .....500 ft. Roll	399.99
3780 RG-213 coax cable .....per ft. ....	.89
3780 .....100 ft. Roll	84.99
3780 .....500 ft. Roll	399.99
5971 8-wire rotor cable; 2-18, 6-22 ....per ft. ....	.49
5971 .....100 ft. cut	44.99
5971 .....1000 ft. Roll	419.99
5972 8-wire rotor cable; 2-16; 6-18 ....per ft. ....	.99

JSC - continued

AES Price

5972 .....100 ft. cut	94.99
5972 .....500 ft. Roll	429.99

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

K-40 (K40)

K-30 MagnaMount mobile CB antenna	\$ 29.99
K-40 Black base loaded roof/trunk mt CB ant	69.99
M-40 Black MagnaMount for K-40	24.99
W-40 Black weather cap for K-40	2.99
SF-400 4' black Superflex fiberglass CB whip	23.99
SF-400W 4' white Superflex fiberglass CB whip	23.99

KNK Marketing (KNK)

RLG 2007 So CA rpttr listings/SW USA rpttr map	\$ 6.00
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KANTRONICS (KAN)

KPC-3 Plus/128K Small packet TNC/128K RAM	\$229.99
KPC-9612 Plus/128K 9600 controller/128K ...	399.99
12VDC Adaptor 300ma adaptor	19.99
KAM XL All mode TNC w/DSP modems	446.99
12VDC Adaptor 300ma adaptor	19.99

KENT (KNT)

SK-1 Straight key	\$129.99
SP-1 Single paddle key	139.99
TP-1 Dual paddle iambic key	149.99

KENWOOD (KEN)

TS-B2000 PC ctl HF/6m/2m/430 Xcvr/tuner ...	Call/Web
TS-2000 HF/6m/2m/430 Xcvr/ant tuner	Call/Web
UT-20 1.2GHz module Kenwood install only	
TS-2000X HF/6m/2m/430/1.2 Xcvr/tuner ...	Call/Web
KPS-15 23A switching ps w/fan, 25A surge	139.99
PS-60 Heavy duty 22.5A power supply	449.99
ARCP-2000 PC control soft; included w/TSB ...	84.99
DRU-3A Digital recording unit	144.99
HS-5 Deluxe headphones	87.99
HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	55.99
MC-43S Extra 8-pin hand mic w/up-down ..	65.99
MC-60A 8-pin amp desk mic w/up-down ..	149.99
MC-90 2-head DSP desk microphone	249.99
PG-2Y 13' DC cable	44.99
PG-2Z 6.5' heavy duty DC cable	42.99
RC-2000 Remote faceplate mobile kit	379.99
SP-23 External speaker	99.99
VS-3 Voice synthesizer	39.99
TS-590S Compact HF/6m advanced DSP Xcvr	Call/Web
KPS-15 23A switching ps w/fan, 25A surge	139.99
PS-60 Heavy duty 22.5A power supply	449.99
HS-5 Deluxe headphones	87.99
HS-6 Lightweight headphones	59.99
MB-430 Mobile mounting bracket	55.99
MC-47 Multi-function 8-pin hand mic	65.99
MC-60A 8-pin amp desk mic w/up-down ..	149.99
MC-90 2-head DSP desk microphone	249.99
PG-20 22' DC cable	49.99
SO-3 TCXO unit	119.99
SP-23 External speaker	99.99
SP-50B High quality external mobile spkr ..	59.99
VGS-1 Voice guide & storage unit	69.99
TS-480HX 200w HF/100w 6m Xcvr	Call/Web
TS-480SAT 100w HF/6m Xcvr w/auto tuner	Call/Web
KPS-15 23A sw ps/fan, 25A surge (use 2 for 200w)	139.99
PS-60 Heavy duty 22.5A ps (use 2 for 200w) ..	449.99
HS-5 Deluxe headphones	87.99
HS-6 Lightweight headphones	59.99
MB-480 Carrying bracket w/handle	51.99
MC-43S Extra 8-pin hand mic w/up-down ..	65.99
MC-47 Multi-function 8-pin hand mic	65.99
MC-60A 8-pin amp desk mic w/up-down ..	149.99
MC-90 2-head DSP desk microphone	249.99

Kenwood - continued

AES Price

MJ-88 Modular to 8-pin mic adapter	35.99
PG-4Z 13' panel extension kit	59.99
PG-20 22' DC cable	49.99
SO-3 TCXO unit	119.99
SP-23 External speaker	99.99
SP-50B High quality external mobile spkr ..	59.99
VGS-1 Voice guide & storage unit	69.99
YF-107C 500 Hz CW filter	129.99
YF-107CN 270 Hz CW filter	129.99
YF-107SN 1.8 KHz SSB filter	129.99
7-pin DIN plug	4.99
8-pin DIN plug	6.99
13-pin DIN plug	9.99
HS-5 Deluxe headphones	87.99
HS-6 Lightweight headphones	59.99
KES-5 Heavy duty 40w unterminated speaker ..	49.99
KPS-15 23A switching ps w/fan, 25A surge ..	139.99
LF-30A 1kw PEP low pass filter	69.99
MC-43S 8-pin hand mic w/up-down switch ..	65.99
MC-60A 8-pin amp desk mic w/up-down	149.99
MJ-88 Modular to 8-pin mic adapter	35.99
SO-2 TCXO unit; TS-570D/S	169.99
SP-50B High quality external mobile speaker ..	59.99
SP-950 Ext spkr/audio filters; TS-950SDX	159.99
YK-88C-1 500 Hz CW filter; TS-570D/S	119.99
YK-88CN-1 270 Hz CW filter; TS-570D/S	109.99
YK-88SN-1 1.8 KHz SSB filter; TS-570D/S ..	139.99
TM-V71A 50w 2m/50w 440 FM Xcvr	Call/Web
DFK-3D Detachable front panel kit	49.99
MJ-88 Modular to 8-pin mic adapter	35.99
PG-2N Extra DC cable	19.99
PG-5A Packet data cable	17.99
PG-5F Extension cable kit	77.99
PG-5G Programming interface kit	39.99
PG-5H PC interface kit	64.99
RC-D710 TNC/APRS control head	299.99
PG-5J Interface kit; external TNC w/RC-D710 ..	84.99
SP-50B High quality external mobile spkr ..	59.99
VGS-1 Voice guide & storage unit	69.99
TM-D710A 50w 2m/50w 440 FM Xcvr/TNC ...	Call/Web
MJ-88 Modular to 8-pin mic adapter	35.99
PG-2N Extra DC cable	19.99
PG-5A Packet data cable	17.99
PG-5F Extension cable kit	77.99
PG-5G Programming interface kit	39.99
PG-5H PC interface kit	64.99
SP-50B High quality external mobile spkr ..	59.99
VGS-1 Voice guide & storage unit	69.99
TM-271A 60w 2m FM Xcvr w/WX alert	Call/Web
MJ-88 Modular to 8-pin mic adapter	35.99
PG-2N Extra DC cable	19.99
PG-5D PC interface cable	79.99
SP-50B High quality external mobile spkr ..	59.99
BT-11 4-AA battery holder; TH-D7A(G)	19.99
MC-58DM Back-lit modular TTP microphone ..	84.99
PB-34 9.6v 600mah 5w battery; TH-22	69.99
PB-39 9.6v 600mah 5w batt; TH-D7A(G)	59.99
PG-3B 15A DC line noise filter	33.99
PG-4W PC software/cable; TH-D7A(G)	34.99
PG-4X 13' extension cable kit; TMD-700A	59.99
RC-D710 TNC/APRS head	299.99
PG-5J Interface kit; external TNC w/RC-D710 ..	84.99
SC-47B Black soft case for TH-D7A(G)	14.99
SC-470R Orange soft case for TH-D7A(G)	12.99
TH-K2AT 5w 2m FM HT/battery/charger	Call/Web
BT-14 6-AA battery holder	22.99
HMC-3 VOX/boom mic headset	52.99
KHS-21 Boom mic headset	29.99
KHS-22 Boom mic headset	36.99
KHS-26 Lapel clip mic/ear piece	25.99
KSC-24 Rapid charger	49.99
PB-43N 7.2v 1100mah NiMH battery	49.99
PG-2W DC cable w/fuse	19.99

Kenwood - continued		AES Price
PG-3J	Cig lighter cord w/filter	39.99
PG-4Y	9-pin PC programming cable	35.99
SC-54	Soft case	17.99
SMC-32	Mini water resist rt angle spkr/mic ..	54.99
SMC-33	Speaker/mic w/remote control	69.99
SMC-34	Spkr/mic w/vol cont/function keys	35.99
WR-2	Water resistant bag; TH-22/42AT	32.99
TH-F6A	5w 2m/220/440 FM HT/lith ion	Call/Web
BT-13	AA battery case	28.99
HMC-3	VOX/boom mic headset	52.99
KHS-21	Boom mic headset	29.99
KHS-22	Boom mic headset	36.99
KHS-26	Lapel clip mic/ear piece	25.99
PB-42L	Extra 7.4v 2000mah lithium ion batt ..	88.99
PG-2W	DC cable w/fuse	19.99
PG-3J	Cig lighter cord w/filter	39.99
PG-4Y	9-pin PC programming cable	35.99
SC-51	Soft case w/swivel belt clip	17.99
SMC-32	Mini water resist rt angle spkr/mic ..	54.99
SMC-33	Speaker/mic w/remote control	69.99
SMC-34	Spkr/mic w/vol cont/function keys	35.99
WR-2	Water resistant bag	32.99

KESTER (KES)		
83-3000-0000	1.3oz 60/40 lead solder, .050 dia ..	\$ 4.99
KLEINHUIS (KLE)		
1309	Isolated grounding bar	\$ 14.99
KOSS (KOS)		
KTX/8	Collapsible stereophone w/vol control ..	\$ 14.99
QZ/5	Passive noise reduction stereophone ..D	49.99
QZ/50	Active noise reduction stereophone ..D	39.99
QZ/99	Noise reduction stereoph w/mono sw ..	59.99
QZ/2000	Active noise reduction stereophone ..Δ	49.99
Race Tracker Black	Passive noise reduction stereophone ..	49.99
SparkPlug	Stereo ear buds	9.99
Y-88	Dual stereophone Y-adaptor	4.99

LDG (LDG)		
AT-100ProII	160-6m 1-125w/100w 6m auto tuner ..	\$219.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
AT-200Pro	160-6m 5-250w/100w 6m auto tuner ..	229.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
AT-600Pro	600w PEP HF/250w 6m auto tuner	329.99
RBA-1:1	Remote 1:1 balun; short random ..	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
AT-897Plus	Bolt-on auto tuner for Yaesu FT-897 ..	199.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
AT-1000Pro	1000w PEP HF/250w 6m auto tuner ..	549.99
RBA-1:1	Remote 1:1 balun; short random ..	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
IT-100	Auto tuner; IC7000/706/703/718/746/756 ..	179.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
KT-100	160-6m 125w/100w 6m auto tuner; Kenwood ..	199.99
RBA-1:1	Remote 1:1 balun; short random ..	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
YT-100	Desk-top auto tuner; FT-857/897/100 ..	199.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
YT-450	Desk-top auto tuner for FT-450/950 ..	249.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
YT-847	Desk-top auto tuner for FT-847	249.99
RBA-1:1	Remote 1:1 balun	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
Z-11ProII	160-6m 1-125w/100w 6m auto tuner ..	179.99
RBA-1:1	Remote 1:1 balun; short random ..	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99

LDG - continued		AES Price
Z-100Plus	160-6m 1-125w/100w 6m auto tuner ..	159.99
RBA-1:1	Remote 1:1 balun; short random ..	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
Z-817	160-6m 20w auto tuner for Yaesu FT-817 ..	129.99
RBA-1:1	Remote 1:1 balun; short random ..	30.99
RBA-4:1	Remote 4:1 balun; long/random/end fed ..	30.99
ALK-2	2-port audio/linear/key switch	49.99
DM-7800	Dual 4.5" meters for IC-7800	134.99
DTS-6	6-pos HF/6m 1500/250w ant switch D ..	99.99
FT-METER	Multi-function meter for FT-857/897 ..	49.99
FTL-METER	Large 4.5" meter for FT-857/897 ..	79.99
M-7600	4.5" multi-function meter; IC-7600 ..	79.99
M-7700	4.5" multi-function meter; IC-7700 ..	79.99
RCA-14	Transceiver cable breakout box	59.99
SLS-2	Microphone switch w/RJ-45 connectors ..	59.99

LA CROSSE (LAC)		
EA-3010	Handheld wind indicator	\$ 49.99
IR-101	Infra-red thermometer	9.99
WA-1240U	4-day talking internet forecaster ..	99.99
WD-3209U	4-day internet forecaster/alerts ..	99.99
WS-450B	Color forecast station	69.99
WS-1612CH-IT	Professional wireless WX stn ..	139.99
WS-2010-13	PC interface/soft; WS-2010 ..D	2.99
WS-7014CH	Wireless forecast station	49.99
WS-7394U-CH-IT	Wireless forecast station ..	69.99
WS-8035U-SAL-IT	Dlx wireless forecast stn ..	89.99
WS-8117U-IT-Oak	Atomic clock/in/out temp/moon ..	46.99
WS-9004U-IT	Wireless rain gauge	29.99
WS-9016TWC	Sun/moon wireless weather stn D ..	24.99
WS-9023U-IT	Wireless temperature/humidity ..	29.99
WS-9080U-IT-CBP	Wireless temperature station ..	29.99
WS-9121U-IT-CBP	Wireless thermometer	19.99
WT-3102S	10" 12-hour analog atomic clock ..	19.99
WT-5120	Projection alarm/out temp/in humidity ..	39.99
WT-8005U-B	Atomic 12/24-hr wall clock/in temp ..	29.99

LAKEVIEW (LAK)		
9175	75m 7' Hamstick antenna	\$ 39.99
9160	60m 7' Hamstick antenna	39.99
9140	40m 7' Hamstick antenna	39.99
9130	30m 7' Hamstick antenna	39.99
9120	20m 7' Hamstick antenna	39.99
9117	17m 7' Hamstick antenna	39.99
9115	15m 7' Hamstick antenna	39.99
9112	12m 7' Hamstick antenna	39.99
9110	10m 7' Hamstick antenna	39.99
9106	6m 4.5' Hamstick antenna	39.99
901	Dipole mount for 2 Hamsticks	24.99
IM-1	Inducti-match for 75-12m mobile ant ..	29.99
TM-1	License plate mount, 3/4-24	54.99

LARSEN/PULSE (LAR)		
27-31 MHz ANTENNA		
NMO-27B	10m black ant only (no mount)	\$ 49.99
NMO-27C	10m ant only (no mount)	45.99
47-54 MHz ANTENNA		
NMO-50B	6m black ant only (no mount)	\$ 49.99
NMO-50C	6m ant only (no mount)	45.99
144-174 MHz ANTENNAS		
NMO-150B	2m black ant only (no mt), 3 db ..	\$ 29.99
NMO-150C	2m ant only (no mount), 3 db	29.99
OM-150CK	2m no ground plane antenna	69.99
440-460 MHz ANTENNA		
NMO-440C	440 ant only (no mount), 3.4db ..	\$ 34.99
890-960 MHz ANTENNA		
NMO-900B	900 black ant only (no mt), 3.4db ..	\$ 42.99
NMO-2/70B	2m/440 blk ant only (no mt), 1.6/3.5db ..	79.99
NMO-2/70-SH	2m/440 ant (no mt), 0/1.8db ..	49.99
NMOQ-Spec	136-960 MHz 1/4 wave ant (no mt) ..	17.99
NMOQ-Spec-B	136-960 black 1/4 wv ant (no mt) ..	24.99
NMOQ-Spec-K	136-960MHz 1/4 wv 3/4" hole ant D ..	29.99
GPS-NMO02	GPS NMO mount ant (no mt)	69.99

Larsen - continued		AES Price
NMO-150450800	3-band scanner ant (no mt)	32.99
ON GLASS ANTENNAS		
KG-144-UD-PL	2m on glass antenna	\$ 89.99
KG-2/70-CX-PL	2m/440 on glass antenna ...	129.99
KG-Reinstall	Reinstall kit for KG-ants	10.99
KULDUCKIE - For Hand-helds		
KD4-2/70	2m/440 9" BNC Kulduckie	\$ 42.99
ACCESSORIES		
BSA-K/BSA-Kit	Base kit; NMO/UHF mount	\$ 56.99
HP-34	3/4" hole plugs (5)	3.99
NMO-CAP-B	Black rain cap for NMO mount ..	6.99
NMO-K	3/4" hole mt w/coax for NMO ant	24.99
NMO-KHF-UD	3/4" NMO hole mt/coax (less plug) ..	15.99
NMO-MMR	Round mag mt, coax for NMO ant ..	34.99
NMO-TLP	Low profile tnk lid mt, coax; NMO ant ..	34.99
PO-K	Roof mt, coax for SO-239 ant	44.99
PO-MM	Magnet mt, coax for SO-239 ant	46.99
RG-SS	Extra super seal NMO gaskets (3)	6.99
SPRING	Shock spring	14.99
TMB-34	Trunk mtg bkt for NMO antenna	6.99
TMB-34B	Black trunk mtg bkt for NMO ant ..	9.99
W-2/70B	2m/440 black replacement mobile whip ..	32.99
W-KG2/70	2m/440 replacement on glass whip ..	32.99
W-490	49" replacement mobile whip	10.99
W-490B	Black 49" replacement mobile whip ..	14.99

LOGSAT (LOG)		
Logsat Professional	Satellite tracking CD ..Δ	\$ 49.99
M ² (MSQ)		
6M-3SS	6m 6.06db 3el 5' 9" boom beam	\$149.99
6M-3	6m 50-50.6 or 51-54 6.4db 3el 6' 9" bm beam ..	179.99
6M-5X	6m 50-50.5 or 51-54 9.4db 5el 18' bm beam ..	307.99
6M-7JHV	6m 50-50.4 10.9db 7el 30' 8"bm beam ..	380.99
6M-HO-LOOP	6m 50-50.3 4.4db horiz loop ant ..	140.99
6" x 1/2"	3/8-24 mobile mast for loop	13.99
16" x 1/2"	3/8-24 mobile mast for loop	14.99
18" x 5/8"	3/8-24 mobile mast for loop	21.99
36" x 1/2"	3/8-24 mobile mast for loop	34.99
50" x 1/2"	3/8-24 mobile mast for loop	38.99
Mast/Top Bkt	Top bracket for mast; HO stack ..	23.99
2M-3SS	2m 6.16db 3el 3' boom beam	69.99
2M-4	2m 7.5db 4el 4' boom beam	139.99
2M-7	2m 10.3db 7el 8' 10" boom beam	156.99
2M-9SSB/FM	2m SSB or FM 12db 9el 14' 6" boom ..	182.99
2M-12	2m 12.8db 12el 19' 6" boom beam	239.99
2M-5WL	2m 14.8db 17el 33' boom beam	269.99
2M-CP14	2m 10.3db 7h/7v 10' 6"bm circ beam ..	229.99
PS-2M	2m polarity switch; circ pol beam ..	199.99
2M-HO-LOOP	2m 144-144.5 4.86db horiz loop ..	59.99
6" x 1/2"	3/8-24 mobile mast for loop	13.99
16" x 1/2"	3/8-24 mobile mast for loop	14.99
18" x 5/8"	3/8-24 mobile mast for loop	21.99
36" x 1/2"	3/8-24 mobile mast for loop	34.99
50" x 1/2"	3/8-24 mobile mast for loop	38.99
Big-Foot	4x-mag mt; 2M-HO-LOOP stack/etc ..	129.99
MAG-KIT	Magnet mt kit; single 2m-HO-LOOP ..	30.99
Mast/Top Bkt	Top bracket for mast; HO stack ..	23.99
STACK-KIT	Stack kit for 2 2m-HO-LOOP's	87.99
EB-144/RK-2M	2m Eggbeater w/reflector kit	269.99
222-10EZ	220 12db 10el 9' 9" boom beam ..	156.99
440-6SS	420-450 8.86db 6el 3' boom beam ..	78.99
420-50-11	432 11.3db 11el 5' bm rear mt beam ..	139.99
440-18	432 14.5db 18el 11' 4" boom beam ..	179.99
436-CP30	432 14.5db 15h/15v 9' 9"bm circ beam ..	299.99
436-CP42UG	432 16.8db 21h/21v 18' 10"bm circ ..	349.99
PS-70CM	432 polarity switch; circ pol beam ..	199.99
432-9WL	432 17.3db 28el 21' boom beam ...	249.99
432-HO-LOOP	430-436 5db horiz loop ant ...	59.99
6" x 1/2"	3/8-24 mobile mast for loop	13.99
16" x 1/2"	3/8-24 mobile mast for loop	14.99
18" x 5/8"	3/8-24 mobile mast for loop	21.99
36" x 1/2"	3/8-24 mobile mast for loop	34.99
50" x 1/2"	3/8-24 mobile mast for loop	38.99

M² - continued

	AES Price
Big-Foot 4x-mag mt; 432-HO-LOOP stack/etc	129.99
MAG-KIT Mag mt kit; single 432-HO-LOOP	30.99
STACK-KIT-70CM Stack kit; 2 432-HO-LOOP's	87.99
EB-432/RK-70CM 432 Eggbeater w/reflector kit	239.99
23CM-22EZA 1.2GHz 16db 22el 5'2" bm beam	179.99
2M-2-Port-PD 2m 2-port type N power divider	84.99
70CM-2-Port-PD 432 2-port N power divider	84.99
OR-2800PDC 35 sq ft azimuth rotor/control 8-wire	1399.99

MFJ (MFJ)

ANTENNA TUNERS

9982 2.5kw continuous w/roller inductor	\$649.99
989D Dix 1.5kw PEP w/roller inductor	349.99
986 3kw PEP w/roller inductor	319.99
962D 1.5kw PEP/meter/switch/balun/roller ind	279.99
969 HF & 6m 300w roller inductor tuner	199.99
949E 300w/PEP meter/dummy/switch/balun	169.99
948 300w/meter/switch/balun	149.99
941E 300w tuner w/meter, switch, balun	129.99
945E 300w tuner w/meter plus 6m	119.99
20 Mobile bracket for 945E	6.99
901B Versa Tuner 200w ant tuner	99.99
910 80-10m mobile antenna matcher	29.99
16010 200w random wire tuner	69.99
974B 3.5-54MHz balanced line ant tuner	179.99
974HB 1.8-54MHz balanced line ant tuner	199.99
976 1.5kw 1.8-30MHz balanced line ant tuner	469.99
991B 150w automatic antenna tuner	209.99
993B 300w deluxe automatic antenna tuner	249.99
994B 600w automatic antenna tuner	339.99
1316 12vdc 1.2A adapter; auto tuners	21.99
5124A Alinco interface cable; auto tuners	1.99
5124I Icom interface cable; auto tuners	19.99
5124K Kenwood interface cable; auto tuners	59.99
5124Y Yaesu interface cable; auto tuners	59.99
998 1.5kw automatic antenna tuner	649.99
1316 12vdc 1.2A adapter; auto tuners	21.99
5114I Icom interface cable	19.99
5114K Kenwood interface cable	19.99
5114Y Yaesu interface cable; not for FT-950	19.99
902 80-10m 150w travel tuner	99.99
903 6m antenna tuner	69.99
904 80-10m 150w travel tuner w/meter	129.99
906 6m antenna tuner w/wattmeter	99.99
914 Auto tuner extender	79.99
921 2m/220 300w PEP tuner/SWR/wattmeter	89.99
924 440 MHz 300w PEP tuner/SWR/wattmeter	89.99
934 300w tuner w/artificial ground	199.99

MEMORY KEYS

451 Dedicated CW keyboard w/memory	\$119.99
452 CW keyboard/keyer w/disp/keyboard	149.99
452X CW keyboard/keyer w/disp, no keyboard	119.99
490 492 keyer/Bencher paddle combo	199.99
490X 492 keyer for use w/Bencher or 564	119.99
564 Deluxe iambic chrome paddle for 490X	69.99
564B Deluxe iambic black paddle for 490X	69.99
492 192 char menu driven memory keyer	109.99
495 Millennium memory keyer	169.99

ELECTRONIC KEYS

401D Econo keyer	\$ 69.99
407D Deluxe electronic keyer	79.99

KEYER/PADDLES

422D Keyer/Bencher paddle combination	\$179.99
422DX Keyer only	89.99
441 SlimLine econo keyer	74.99
447 SlimLine deluxe keyer	89.99
564 Deluxe iambic chrome paddle	69.99
564B Deluxe iambic black paddle	69.99
5166 Paddle to keyer cable	11.99

COMPUTER INTERFACES

1224 Computer Interface	D \$ 24.99
1272BYH TNC/mic switch; KAM HF	6.99

MFJ - continued

	AES Price
1272BYV TNC/mic switch; KAM VHF	9.99
1272M TNC/mic RJ-45 switch; MFJ/PK-900	14.99
SSB/CW FILTERS	
751B Super tunable CW audio filter	\$ 89.99
752C Dual tunable SSB/CW filter	109.99
784B Deluxe tuneable DSP filter	259.99
5184 Cable pack for 784B	9.99

PHONE PATCH

624E 8p/mod phone patch w/audio VU meter	\$149.99
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DUMMY LOADS

250 2kw PEP dummy load w/oil	\$ 69.99
250X 2kw PEP dummy load, less oil	49.99
21 1 gal industrial xfmr oil for wet dummy	29.99
260C 300w 0-650 MHz dry dummy load	39.99
260CN 300w 0-650 MHz type N dry dummy	49.99
264 1.5kw 0-650 MHz dry dummy load	74.99
264N 1.5kw 0-650 MHz type N dry dummy	84.99
267 1.5kw 1.8-60 dry dummy load/SWR/wattmeter	149.99

SWR/WATTMETERS

812B 144-220 MHz SWR/FS/wattmeter	\$ 39.99
815C 160-10m cross-needle SWR/wattmeter	89.99
816 1.8-30 MHz toroidal SWR/wattmeter	39.99
817C 2m/220/440 cross needle meter	99.99
841 2m 5w in-line HT wattmeter/SWR	49.99
844 Compact 2m/440 SWR/wattmeter	69.99
860 1.8-60 MHz cross-needle meter	59.99
862 2m/220/440 cross-needle meter	69.99
864 1.8-60MHz/2m/440 cross needle meter	89.99
868 HF 6.5" diagonal PEP SWR/wattmeter	149.99
870 1.6-60MHz Grandmaster SWR/wattmeter	79.99
872 1.8-200MHz Grandmaster SWR/wattmeter	79.99
873 125-525MHz Grandmaster SWR/wattmeter	79.99
874 1.8-525MHz Grandmaster SWR/wattmeter	109.99

SHORTWAVE ACCESSORIES

306 Car radio SWL converter	\$ 99.99
956 LW/MW/SW preselector/tuner	69.99
959C SW receiver ant tuner w/preamp	109.99
1020C .3-40 MHz indoor active receive ant	99.99
1022 300KHz-200MHz active rcv antenna	69.99
1024 .05-30 MHz outdoor active rcv ant	149.99
1040C Deluxe receiver preselector	119.99
1045C Receiver preselector	89.99

BOOKS

30 Golden Classics book	\$ 14.95
32 Packet Made Easy book	12.95
33 Mobile Handbook	14.95
36 Shortwave Listeners Guide; Apts/Condos	12.95
37 Ham Communications Circuit Files book	12.95
38 Easy-up Antennas book	19.95
3036 The Packet Radio Operators book	14.95
3101 Fox Hunt Adventure book	9.95
3213 General license guide	9.99
3301 Troubleshooting Antenna & Feedlines book	14.95
3302 73 Dipole and Long-Wire Antennas	14.95
3303 73 Vertical, Beam, and Triangle Ants	14.95
3305 Antennas & Transmission Lines book	19.95
3400 Morse Code: Breaking the Barrier	19.95
3502 Solid State QRP Projects	12.95
3504 FET Principles, Experiments & Projects	16.95
3506 Ferromagnetic-Core Design book	19.95
3507 Practical RF Design Manual	19.95
3509 Ladder Crystal Filters	19.95

CLOCKS

105C 24-hour quartz wall clock	\$ 24.99
107B 24-hour digital clock	12.99
108B 24/12-hour dual disp digital clock	21.99
112B Deluxe world map clock	29.99
113 24/12-hr 1.8" LED clock/batt back-up	19.99
118 Giant 24/12 hour LCD clock	29.99
123 Eternity solar atomic clock	D 24.99
123B Eternity solar atomic clock	79.99
125 Calendar 24-hour analog wall clock	34.99

MFJ - continued

	AES Price
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ANTENNAS	
1402 2m/440 0/3db 16.5" 100w ant only	\$ 29.99
1412 2m/440 3/5.5db 40" 200w ant only	29.99
1414 2m/440 3/8-24 58" antenna only	19.99
1422 2m/440 3.2/5.7db 41.5" 150w ant only	34.99
1432 2m/440 5/7.6db 62.5" 150w ant only	49.99
1436 6m/2m/440 2.15/4.5/7.2db 59" ant only	59.99
333BM 3.5" HiFlux NMO mag mt/cbl; not 1436	11.99
333BS 3.5" HiFlux SO-239 magt mt/cbl; not 1436	11.99
335BM 5" HiFlux NMO mag mt/cbl; not 1436	15.99
335BS 5" HiFlux SO-239 mag mt/cbl; not 1436	15.99
340 Mirror/luggage pipe clamp mount	34.99
345S Trunk/hatchback lip mt SO-239 mt	34.99
1516 2m 15' vertical base antenna	99.99
1621 40-10m 54" portable ant w/tuner	99.99
1622 40-2m apartment antenna	99.99
1624 40-6m mini bugcatcher antenna	89.99
1661 40-6m portable manual screwdriver ant	139.99
1664 80-6m portable manual screwdriver ant	169.99
1710 2m 3/4 wave telescopic BNC antenna	9.99
1712 2m/440 telescopic BNC antenna	14.99
1712S 2m/440 telescopic SMA antenna	14.99
1713 2m/440 SuperFlex Thin Duk HT ant	16.99
1713S 2m/440 SuperFlex SMA Thin Duk ant	16.99
1714 2m 1/2 wave telescopic BNC antenna	16.99
1715 2m/440 SuperFlex gain Thin Duk HT ant	19.99
1715S 2m/440 SuperFlex gain SMA Thin Duk	19.99
1716 2m/440 duck for HT	14.99
1716S 2m/440 SMA duck for HT	14.99
1717 2m/2.15db 440 duck for HT	18.99
1717PL 2m/440 foldover flexi-duck, PL-259	24.99
1717S 2m/2.15db 440 SMA duck for HT	18.99
1719 2m/440 BNC Midget Duck	14.99
1719S 2m/440 SMA Midget Duck	14.99
1720S 6m/2m/440 SMA Duck	29.99
1721 2m HT UltraLite mag mt antenna	12.99
1722 2m/440 HT UltraLite mag mt BNC ant	14.99
1722S 2m/440 HT UltraLite mag mt SMA ant	14.99
1724B 2m/440 magnet mt antenna	24.99
1728B 6m 1/4 wv/2m 1/4 wv mag ant/PL259/BNC	26.99
1729 2m/440 magnet mt antenna	39.99
1730 2m pocket roll-up vertical antenna	29.99
1734 2m/440 2.6/6.3db glass mt antenna	44.99
1736 6m J-Pole travel antenna	29.99
1738 2m 2.6db glass mt antenna	34.99
94 Remount kit for 1734/1738	4.99
1740 2m 1/4 wave ground plane ant	29.99
1750 2m 3/4 wave ground plane ant	34.99
1752 220 3/4 wave ground plane ant	34.99
1754 2m/440 ground plane antenna	39.99
1762 6m 6db 3 el 6' boom beam	99.99
1763 2m 3el portable beam	54.99
1764 2 & 6m dual 3/4 super gain base ant	59.99
1768 2m/440 4/7 el beam antenna	99.99
1777 160-6m all band doublet	59.99
1778 G5RV 160-10m 102' ant (needs tuner)	44.99
1796 40/20/15/10/6/2m 10' vertical ant	219.99
1798 80/40/30/20/17/15/12/10/6/2m 20' vert	289.99
1800 2.4GHz wi-fi 16 element 15db beam	29.99
5606SR 6' N male - rp-SMA female cbl for 1800	24.99
1899T 80-6m telescopic antenna; FT-817	79.99
1910 33' telescoping fiberglass mast	79.99
1954 3/8-24 10' telescopic whip	29.99
1956 3/8-24 12' telescopic whip	34.99
2990 160-6m 43' vert ant; needs ant tuner	359.99
CABLES	
5022YV KAM VHF/KPC3 - Ali/Sta HT cable	Δ \$ 2.99
5024YV KAM VHF/KPC3 - Ico/Yae/Ali/RS HT	17.99
5060YV KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN	21.99
5063 MFJ TNC - Icom HF acc 8-pin DIN	Δ 4.99
5064 MFJ TNC - Icom VHF acc 8-pin DIN	Δ 1.99
5065YH KAM HF - Ico IC-706 acc 13-pin DIN	21.99
5065YV KAM VHF - Ico IC706 acc 13-pin DIN	Δ 12.99

MFJ - continued**AES Price**

5066YH	KAM HF - Ken HF acc 13-pin DIN ..	2.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable ..	17.99
5082	Open end - 8-pin mic cable	11.99
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod ..	17.99
5086M	MFJ TNC - Kenwood 8-pin modular ..	.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod ..	17.99
5086YH	KAM HF port - Ken/Alti 8-pin cable ..	2.99
5086YV	KAM VHF/KPC3 - Ken/Alti 8-pin cable ..	17.99
5213	Open end - Kenwood acc 13-pin DIN ..	11.99
5220R/5220	Open end - Yae FT50R/compat ..	.69
5222	Open end - Ali split HT cable .....	.69
5224	Open end - Ico/Yae/Alti/RS HT cable ..	.69
5268	Open end - modular phone plug cable ..	11.99
5412	IBM printer cable .....	.69
5429	Cable/adapt; RS-232 to USB w/drivers ..	24.99
5803/10	3' coax jumper cable	5.99

RADIOS/TRANSCIVERS

8100K	Shortwave regenerative Rcvr kit	\$ 79.99
8100W	Shortwave regenerative Rcvr wired ..	109.99
8621X2	5w APRS ready 2m data radio/144.39 D ..	149.99
4110	Portable AC power supply	59.99
5100YV	Data radio cable - KAM/KPC-3	2.99
8708	4ch ham micro ATV transmitter	149.99
9015	5w 15m CW Xcvr	199.99
9020	5w 20m CW Xcvr	199.99
9030	5w 30m CW Xcvr	199.99
9040	5w 40m CW Xcvr	199.99
27	Handle for CW station	6.99
412	Plug-in Curtis keyer	49.99
726	Plug-in audio filter	49.99
971	200w portable ant tuner w/meter	119.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99
9402X	7w PEP 2m SSB Xcvr w/mic	269.99
9406X	10w PEP 6m SSB Xcvr w/mic	269.99
9410X	20w PEP 10m SSB Xcvr w/mic	269.99
9420X	20w PEP 20m SSB Xcvr w/mic	259.99
9440X	12w PEP 40m SSB Xcvr w/mic	249.99
9475X	12w PEP 75m SSB Xcvr w/mic	249.99
415B	CW adapter for 9420X/9440X	49.99
416	CW adapter for 9402X/9406X/9410X ..	49.99
971	200w portable ant tuner w/meter	119.99
1770A	10m dipole for 9410X	D 24.99
1772	Portable 20m dipole	D 29.99
1774	Portable 40m dipole	D 29.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99

ACCESSORIES

1312D	12vdc 500ma adapter, 2.1mm plug ..	\$ 15.99
1316	12vdc 1.2A adapter	21.99
15	HamGear belt loop radio holder	14.99
16C01	Glazed ceramic end insulator .....	.99
18	HamGear chest harness/cargo pocket ..	29.99
92AA01	AA NiMH cell	each 3.49
92AA10	10-pack AA NiMH cells	29.99
201	1.5-250 MHz dip meter	139.99
202B	RF noise bridge	79.99
207	160-10m SWR analyzer	99.99
208	2m SWR analyzer	89.99
209	1.8-170 MHz SWR analyzer	149.99
212	MatchMaker tune up device	99.99
219B	SWR analyzer, 440 MHz/N/50-239 adapt ..	109.99
224	2m FM signal analyzer	169.99
249B	1.8-170 MHz SWR anal/LCD counter ..	249.99
259B	1.8-170 MHz SWR anal/RF res meter ..	269.99
269	1.8-170+440 MHz SWR anal/RF res mtr ..	349.99
29C	Carrying case w/window; 209/249B/259B ..	24.99
39C	Carrying case w/window; 269	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B ..	24.99
92AA10	10-pack 1300ma AA NiMH cells ..	29.99
98	Package of 39C/66/1312D for 269	59.99

MFJ - continued**AES Price**

98B	Pack of 92AA10/39C/66/1312D for 269 ..	93.99
99	Pack of 29C/66/1312D; 209/249B/259B ..	59.99
99B	Pack; 92AA10/29C/66/1312D; 209/249B/259B ..	93.99
99C	Pack - 92AA10/1312D; 209/249B/259B/269 ..	45.99
731	RFI filter for SWR analyzer	99.99
1312D	12vdc 500ma ps for SWR analyzers ..	15.99
270	Guardian Angel 400w PEP lightning protect ..	19.99
97	Gas tube plug for 270	7.99
281	ClearTone communications speaker	12.99
288I	Headset/mic; Icom/ADI/Sta/RS/older Yae ..	24.99
288K	Headset/mic for Kenwood	24.99
288Y	Headset/mic; Ico Q7/Yae FT10/50/VX1 ..	24.99
292I	Earph/mic; Ico/older Yae/compatibles ..	17.99
292Y	Earphone/mic; Ico Q7/Yae FT10/50/VX1 ..	17.99
293I	Rubber flex earloop earbud/mic; Icom ..	24.99
293K	Rubber flex earloop earbud/mic; Kenwood ..	24.99
293Y	Rubber flex earloop earbud/mic; Yaesu ..	24.99
295I	Mini spkr/mic; Icom & compatible HT ..	16.99
295K	Mini spkr/mic; Kenwood & compatible HT ..	16.99
295Y	Mini spkr/mic; Yaesu nonscrew 1-pin ..	16.99
297	Desk mic with flexible boom	69.99
5082	Open end - 8-pin mic cable for 297 ..	11.99
5268	Open end - mod phone plug cbl; 297 ..	11.99
5397I	Cable/8-pin for 297; Icom HF	17.99
5397K	Cable/8-pin for 297; Kenwood HF ..	17.99
5397Y	Cable/8-pin for 297; Yaesu HF	17.99
5397MX	Cable/modular for 297; Icom/Kenwood ..	17.99
5397MY	Cable/modular for 297; Yaesu	17.99
310	BNC HT antenna window mount clip	19.99
310S	SMA HT antenna window mount clip	19.99
336S	5" tri-mag mt for SO239 ant/17' coax ..	34.99
336T	5" tri-mag mt for 3/8-24 ant/17' coax ..	34.99
341M	17' antenna cable; NMO	19.99
341S	17' antenna cable; SO-239	19.99
342S	SO-239 mirror/rack/pipe mount w/coax ..	14.99
342T	3/8-24 mirror/rack/pipe mount	9.99
343	1 1/2" hole mount for 3/8-24 whip	9.99
344	Pipe/mirror horiz mount; 3/8-24	9.99
347	HF stick mini dipole mount	19.99
382	Deluxe amplified communications spkr ..	39.99
388	Cyber Ear 12db ear amplifier	29.99
392B	Deluxe communication headphones	24.99
414	Professional Morse Tutor w/LCD	199.99
418	Code Tutor with LCD display	89.99
434B	Deluxe Voice Memory Keyer	189.99
73	Remote control head w/cbl; 434/434B ..	34.99
461	Pocket size Morse code reader	89.99
5161	DB-9 PC serial port cable	16.99
5162	Cable for radio external speaker	7.99
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader ..	189.99
5162	Cable for radio external speaker	7.99
464	CW reader w/built-in keyer	189.99
550	Hand key	14.99
554	Deluxe CW practice oscillator	89.99
557	Code oscillator w/key	39.99
616	Speech intelligibility enhancer	179.99
1316	12vdc 1.2A adapter	21.99
281	ClearTone speaker (requires 2)	12.99
392B	Deluxe communication headphones ..	24.99
633	Rapid charger; NiMH/nicad AA/AAA/9V ..	29.99
662	Simplex pocket repeater	89.99
701	Toroid RFI filters	pack of 4 26.99
704	1kw low-pass filter	59.99
762	81db 170MHz BNC attenuator	89.99
801	Super compact field strength meter	29.99
802	Bipolar field strength meter	49.99
802X	Field strength/remote meter combo	74.99
805	RFI current detector meter	99.99
850B	AC line voltage monitor	24.99
852	AC power line noise finder meter	119.99
854	HF RF current meter	119.99
886	1MHz - 3GHz pocket frequency counter ..	129.99
888	Deluxe 10Hz - 3GHz frequency counter ..	189.99
890	DX beacon monitor	109.99

MFJ - continued**AES Price**

912	W9INN remote balun	69.99
916B	2m/440 duplexer	24.99
931	Artificial ground unit	99.99
1025	Noise canceling antenna	169.99
1026	Deluxe noise canceling unit w/antenna ..	189.99
1046	1.6-33MHz receiver passive preselector ..	99.99
1048	1.6-33MHz Xcvr passive preselector	129.99
1112	Multiple DC outlet	44.99
1116	Dlx multiple DC outlet	59.99
1117	High current multiple DC outlet	64.99
1118	Dlx high current multiple DC outlet	84.99
1263	2mic in/2rig out switch/1 round cbl/1 modlr cbl ..	109.99
5397MX	Modular mic cable for 1263	17.99
1273B	Basic soundcard interface/soft; 8P-R ..	59.99
1273BM	Basic soundcard interface/soft; 8P-M ..	59.99
1275	Soundcard/rig interface/software; 8P-R ..	99.99
1275M	Soundcard/rig interface/software; 8P-M ..	99.99
1279	Super soundcard interface/soft; 8P-R ..	129.99
1279M	Super soundcard interface/soft; 8P-M ..	129.99
1700C	6-pos combo ant/xmtr switch/protect ..	99.99
1701	6-position coax switch	69.99
1702C	2-pos coax switch/lightning protect ..	39.99
1702CN	2-pos 1.1GHz N switch/lightning protect ..	44.99
1703	2-rig/2-antenna RF safety switch	29.99
1704	4-pos 500 MHz switch/lightning protect ..	79.99
1704N	4-position type N switch	84.99
1925	Controller; Yaesu ATAS-series/other rigs ..	79.99
192512	Controller; Yae ATAS-series/Ico IC-706 ..	79.99
4035MV	Dlx 30A adjustable ps, 35A surge ..	139.99
4103	Switching power supply; Yaesu FT817/etc ..	49.99
4125	MightyLite 22A 3.5 lb switch ps, 25A surge ..	84.99
4125P	22A 3.5 lb switch ps, 25A surge/Powerpoles ..	94.99
4225MV	MightyLite 22A switch ps, 25A surge/meters ..	99.99
4245MV	MightyLite 40A switch ps, 45A surge/meters ..	149.99
4601	Coax only window ant feed through panel ..	59.99
4602	Multi-type window ant feedthrough panel ..	69.99
4603	Deluxe window ant feedthrough panel ..	89.99
4616	6-hole air vent feedthrough plate	26.99
4712	160-2m 2-pos remote antenna switch ..	79.99
7707	NMO to 3/8/24 adapter	6.99
7725	3/8-24 antenna mount quick connect ..	6.99
7735	Fold-over 3/8-24 stub mount adapter ..	11.99
7748	UHF to 3/8-24 adapter	5.99

MAHA (MAH)

AAA-T	1.2v 650mah AAA size NiMH batt D,ea ..	\$.49
MH-R-AA4	4pack 1.2v 2700mah AA NiMH cells ..	16.99
MH-C801D	1-8 AA/AAA NiMH/NiCD quick charger ..	84.99
MHS-C800U	External charger pin shell .....	.19
MHS-C801	Cup; T2/W32/TH22/79/FT10/50 D ..	.49
MHS-C806	Cup; Ali 195/580/F1/G5/V5/etc D ..	.29
MH-C9000	4 AA/AAA NiMH WizardOne cgr/analizer ..	69.99
MH-BP-7	13.2v 1000mah Icom nickel hydride ..	69.99
MH-BP-8	8.4v 1300mah Icom nickel hydride ..	59.99
MH-BP-173	9.6v 650mah Icom nickel hydride ..	69.99
MH-BP-180	7.2v 1000mah Icom nickel hydride ..	49.99
MH-BP-200	9.6v 680mah Icom nick hydride/clip ..	59.99
MH-BP-211LI	7.4v 1800mah Icom Li-ion ...	39.99
MH-FNB-12	12v 1000mah Yaesu nickel hydride ..	49.99
MH-FNB-17	7.2v 1000mah Yaesu nickel hydride ..	49.99
MH-FNB-27	12v 1000mah Yaesu nickel hydride ..	49.99
MH-FNB-38	9.6v 650mah Yaesu nickel hydride ..	59.99
MH-FNB-41	9.6v 1000mah Yae nick hyd/spg clip ..	55.99
MH-FNB-V47	7.2v 1800mah Yae nick hyd/spg clip ..	39.99
MH-FNB-58LI	7.4v 1200mah Yae Li-polymer ..	59.99
MH-FNB-80LI	7.4v 1500mah Yaesu Li-ion	59.99
MH-FNB-83	7.2v 2000mah Yae nickel hydride ..	59.99
MH-PB-8	12v 1300mah Kenwood nickel hydride ..	14.99
MH-PB-32	6v 1000mah Kenwood nickel hydride ..	39.99
MH-PB-34	9.6v 1000mah Kenwood nickel hydride ..	57.99
MH-PB-39	9.6v 1050 mah Ken nickel hyd/clip ..	59.99
MH-PB-39H	6v 1800mah Ken nickel hyd/clip ..	59.99
MH-PB-42LI	7.4v 1800mah Ken Li-polymer ..	59.99

Maha - continued**AES Price**

MH-800K	500mw spkr/mic w/clip; Kenwood	19.99
MH-800S	500mw spkr/mic/clip; Ali/Ico/Sta/Yae	19.99
MH-800Y	500mw spkr/mic; Yae FT50/VX1R	24.99

MALDOL (MAL)

AH-W100RX	70-900MHz 40" tele BNC rcv ant	\$ 32.99
AS-20	2m/440 8.5" superflex SMA antenna	26.99
AS-25	2m/440 1" SMA antenna	19.99
AS-30	2m/440 15" 0/2.15db superflex SMA ant	29.99
AX-50	2m/440 0/5db 21" mobile antenna	49.99
AX-75	2m/440 3.2/5.7db 30" mobile ant ...D	59.99
AX-95	2m/440 3.3/5.8db 38" mobile ant ...D	66.99
EM-B80	Small trunk/hatch/van door lip mt	27.99
EM-5M	Sm tnk/hatch mt (EM-B80) w/16.5'cbl	62.99
EX-104B	2m/440 black 0/2.15db 15" mob .D	24.99
EX-104BNMO	2m/440 blk 0/2.15db 15" NMO D	24.99
EX-107RB	2m/440 black 2.6/4.9db 29" mob	59.99
EX-107RBNMO	2m/440 blk 2.6/4.9db 29" NMO	59.99
EX-510B	6m/2m/440 blk 0/2.15/5.5db 37" mob	69.99
EX-510BNMO	6m/2m/440 blk 0/2.15/5.5db 37" NMO	69.99
HMC-6S	20/15/10/6/2m/440 66" mobile ant	149.99
HMC-7C	40m loading coil for HMC-6S	34.99
HMC-35C	80/75m loading coil for HMC-6S	39.99
HVU-8	80/40/20/15/10/6/2/440 8.6" vert/radials	349.99
MH-209	2m/440 3" BNC duck	23.99
MH-209SMA	2m/440 3" SMA duck	23.99
MH-510	6m/2m/440 0/0/3.2db 20.75" SMA duck	37.99
MH-511	6m/2m/440 4" SMA duck	33.99
MH-610	2m/220/440 0/1.8/3.2db 14" SMA duck	49.99
MK-30H	Motorized tnk lip/hatch/van door mt	109.99
MK-RR	Roof rack bracket for MK-30H	19.99

MIDLAND (MID)

18-258	On glass mount mobile CB antenna	\$ 19.99
21-406	Deluxe mobile speaker w/3.5mm plug	22.99
74-250C	SAME handheld WX/hazard alert radio	49.99
AVP-5	Accs/batt/cgr/dcadapt/acadapt/headset/mt; NT-1 D	1.99
WR-300	AM/FM/SAME WX/hazard alert radio/ps	59.99

Miracle Antenna (MIA)

Ducker IL	In-line HF rcv tuner; HH/QRP xmit	\$139.99
Miracle Whip	3.5-450MHz 57" QRP ant/tuner	139.99

MIRAGE (MIR)

A-1015G	50-52 FM/SSB 10/150w amp/preamp	\$359.99
B-34	2m FM 2/35w amplifier; no mob bkt	99.99
B-34G	2m FM/SSB 2/35w amp/preamp	109.99
B-310G	2m FM/SSB 4/100w amp/preamp	219.99
B-320G	2m FM/SSB 50/200w amp/preamp	459.99
B-1018G	2m FM/SSB 10/160w amp/preamp	369.99
B-2518G	2m FM/SSB 25/160w amp/preamp	299.99
B-2530G	2m FM/SSB 25/300w amp/preamp	679.99
B-5018G	2m FM/SSB 50/160w amp/preamp	299.99
B-5030G	2m FM/SSB 50/300w amp/preamp	669.99
BD-35	2m/440 4/45/4/35w HT amp	169.99
C-1022G	220 FM/SSB 10/220w amp/preamp	699.99
C-2512G	220 FM/SSB 25/120w amp/preamp	309.99
D-1010N	440 FM/SSB 10/100w type N amp	379.99
D-3010N	440 FM/SSB 30/100w type N amp	349.99
D-1010-ATVN	430 ATV 10/52w type N amp	399.99
MI-3	Ico W21AT/X21AT adapt; B24G/BD25	29.99
MK-2	Ken 22/79 adapter; B24G/BD25	29.99
RC-1*	Remote control head w/18" cable	49.99
*Not for B-23/C-22/D-26		
RC-2	Rem ctl head/cable; B-XX18G	49.99

The following Repeater Amplifiers are Special Order. Specify S0-239 or type N connectors.

A-1015NR	6m FM 2/110w type N amplifier	\$549.99
A-1015R	6m FM 2/110w S0-239 amplifier	529.99
C-211NR	220 FM .5/80w type N amplifier	619.99
C-211R	220 FM .5/80w S0-239 amplifier	599.99
C-1012NR	220 FM 5/90w type N amplifier	619.99
C-1012R	220 FM 5/90w S0-239 amplifier	599.99
C-2512NR	220 FM 15/90w type N amplifier	589.99

Mirage - continued**AES Price**

C-2512R	220 FM 15/90w S0-239 amplifier	569.99
D-1010NR	440 FM 4/80w type N amplifier	629.99
D-1010-ATVN-R	430 ATV 4/80w type N amp	629.99
D-3010NR	440 FM 12/80w type N amplifier	599.99

PREAMPS

KP-1/6M	6m in shack N preamp	\$139.99
KP-1/2M	2m in shack N preamp	139.99
KP-1/440	440 in shack N preamp	139.99
KP-2/6M	6m mast mount N preamp	179.99
KP-2/2M	2m mast mount N preamp	184.99
KP-2/440	440 mast mount N preamp	184.99

NCG (NCG)

Power Pocket	12v 2AH lead acid belt batt/cgr D	\$ 72.99
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NIFTY (NIF)

DX Field Reference		\$ 15.99
E-Z Guide to D-Star Operation 2nd edition		13.99
E-Z Guide to PSK-31 Operation		12.99
HF/VHF/UHF Bands Operating Guide		10.99
MM-IC80AD	Mini-manual/ref card combo	24.99
MM-IC91AD	Mini-manual/ref card combo	22.99
MM-IC92AD	Mini-manual/ref card combo	24.99
MM-IC2820H	Mini-manual	20.99
MM-IC706MKIIG	Mini-manual	16.99
MM-IC718	Mini-manual	16.99
MM-IC746PRO	Mini-manual	20.99
MM-IC756PRO3	Mini-manual	20.99
MM-IC7000	Mini-manual	20.99
MM-IC7600	Mini-manual	24.99
MM-IC7700	Mini-manual	24.99
MM-ID880H	Mini-manual	22.99
MM-TMD710A	Mini-manual	22.99
MM-TMV71A	Mini-manual	18.99
MM-MFJ259B	Mini-manual	12.99
MM-MFJ269	Mini-manual	12.99
MM-TS2000/X	Mini-manual	18.99
MM-FTM350R	Mini-manual	22.99
MM-FT450/AT	Mini-manual	20.99
MM-FT817ND	Mini-manual	16.99
MM-FT857D	Mini-manual	16.99
MM-FT897D	Mini-manual	16.99
MM-FT950	Mini-manual	20.99
MM-FT1900R	Mini-manual	16.99
MM-FT2000/D	Mini-manual	20.99
MM-FT2900R	Mini-manual	16.99
MM-FT7800R	Mini-manual	16.99
MM-FT7900R	Mini-manual	16.99
MM-FT8800R	Mini-manual	16.99
MM-FT8900R	Mini-manual	16.99
MM-VX8R	Mini-manual/ref card combo	24.99
MM-VX8DR	Mini-manual/ref card combo	24.99
MM-VX86R	Mini-manual/ref card combo	24.99
QR-IC208H	Quick reference card	5.99
QR-IC2200H	Quick reference card	5.99
QR-ICT70A	Quick reference card	5.99
QR-ICT90A	Quick reference card	5.99
QR-ICV8	Quick reference card	5.99
QR-ICV80	Quick reference card	5.99
QR-ICV8000	Quick reference card	5.99
QR-THF6A	Quick reference cards (2)	7.99
QR-TM271A	Quick reference card	5.99
QR-FT60R	Quick reference card	5.99
QR-FT250	Quick reference card	5.99
QR-FT270	Quick reference card	5.99
QR-FT1802M	Quick reference card	5.99
QR-FT2800M	Quick reference card	5.99
QR-VX3R	Quick reference cards (2)	7.99
QR-VX6R	Quick reference card	5.99
QR-VX7R	Quick reference card	5.99
QR-VX170/177	Quick reference card	5.99

NORCOMM (NOR)

NC-101	Tunable CTCSS encoder	\$ 21.99
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Norcomm - continued**AES Price**

NC-106	Prog CTCSS encoder/decoder	D 59.99
NC-401	Sub-miniature DTMF decoder	76.99

Oregon Scientific (ORE)

WMR-112A	Wireless weather station	D \$ 39.99
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OUTBACKER (OUT)

OB-8HP	75-10m 500w PEP 6' 8-band mob ant	\$329.99
OB-8TRI	75-10m 300w PEP 3pc 6' port ant/bag	339.99

Joey	80-2m 20w antenna w/counterpoise	299.99
MicroMount	Tripod system for Joey	49.99

OB-M	75/40/20/17/10m/HF marine 300w PEP 6' Δ	269.99
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Perth	75-10m 150w PEP 7.5' mobile ant	329.99
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Perth Plus	75-10m+6m/2m 150w PEP 6' mob ant	329.99
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Stealth Plus	75-10m+6/2m 100w PEP 4' ant	319.99
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Outreach	160-10m 300w PEP 9' antenna	419.99
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Outreach 500	80-6m 600w PEP 9' antenna	449.99
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Outpost	Base tripod mtg system for mobile ant	275.99
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OB-SB	¾-24 spring and ½" hole base	129.99
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Diamond K-400-3/8C	¾-24 trunk mt, 6' coax	73.99
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Diamond C-110	10' ext cable; K-400-3/8C	19.99
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PDK Technologies (PDK)

LiteFlare 3-Pk	3-pack red LiteFlare/carry bag	\$ 29.99
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Palomar Engineers (PAL)

RFI-4	RF interference kit	\$ 35.99
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PALSTAR (PLS)

AT-2K	2000w PEP roller inductor antenna tuner	\$529.99
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AT-2KD	2000w PEP differential antenna tuner	529.99
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4:1 optional current balun	for AT-2KD	49.99
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AT-4K	2.5kw T-match edgewound roller ind tuner	895.99
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AT-5K	3.5kw T-match ceramic roller ind tuner	1195.99
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BT-1500A	1500w PEP balanced antenna tuner	695.99
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DL-2K	2000w 30MHz dummy load w/fan	279.99
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ZM-30	1-30MHz antenna analyzer	399.99
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PENETROX (PEN)

Penetrox A	4 oz tube for antennas	\$ 14.99
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POLYPHASER (PLY)**LIGHTNING PROTECTION**

IS-50NX-C2	125-1000 375/125/50w N flange	\$ 69.99
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IS-50UX-C0	1.5-400 2kw/375/125w flange mt	69.99
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IS-50UX-C1	50-700MHz 375/125w flange mt	69.99
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IS-B50LN-C2	125-1000 375/125/50w N bulkhead	74.99
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IS-B50LU-C0	1.5-400 2kw/375/125w bulkhead	74.99
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IS-B50LU-C1	50-700 375/125w bulkhead mt	74.99
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PLD0-120US20A	120v 20A power protector	199.99
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IS-RCT	8-wire rotor control protector	129.99
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J-1	½" to 1½" bronze transition clamp	14.99
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J-2	1½" to 2¼" bronze transition clamp Δ	1.99
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IX-1TW	Single phone line protector	D 29.99
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CS112-25	25' 1½" copper strap	Δ 49.99
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CS112-50	50' 1½" copper strap	Δ 89.99
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CS112-100	100' 1½" copper strap	Δ 119.99
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CS3-25	25' 3" copper strap	Δ 89.99
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CS3-50	50' 3" copper strap	Δ 129.99
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CU-SP6P	Copper single point ground panel	199.99
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TK-2	1½" strap - Rohn twr corrosion free clamp Δ	8.99
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1C-112S	#6-#1 wire - 1½" strap clamp bond Δ	33.99
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58R-112S	1½" strap - ⅝" gnd rod clamp bond Δ	32.99
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UNI-KIT 2TC	Gnd kit; galv twr leg to copper Δ	6.99
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UNI-KIT 2CC	Ground kit; coax to copper	Δ 39.99
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CCK	Copper cleaning kit; 4 oz can, brush	Δ 28.99
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LPGS/CD	Lightning Protect/Grounding CD	Δ 9.99
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POWERWERX (POW)

AP0-3-PP	Voltage/time controlled power switch	\$ 59.99
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BT-Junior	Battery Tender Junior charging sys	23.99
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BY-T	OEM-T inline Powerpole splitter	14.99
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C20-5	5' 15A cig plug to T-male connector	14.99
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C2P-5	5' 15A cig plug to Powerpole	14.99
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Clip-2-PP	Alligator clips w/fuse to Powerpole	9.99
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Powerwerx - continued AES Price

CT-2	Crimp tool for 15/30/75A Powerpole	12.99
EX-14-5	5' 14ga Powerpole extension cable ..	7.99
HF4-PP	New style HF 4p to Powerpole adapter ..	15.99
HF6-PP	6p male Molex to Powerpole adapter ..	15.99
HF6SOC-HF4	6p female Molex to new style HF 4p ..	15.99
LF-1-PP	16A DC noise filter w/30A Powerpoles ..	29.99
P20-5	5' Powerpole to T-male connector	14.99
PPH-10	10ga fuseholder w/45A Powerpoles ..	14.99
PPH-12	12ga fuseholder w/30A Powerpoles ..	12.99
PP30-10	10-pair 30A Powerpole connectors	9.99
PP30-25	25-pair 30A Powerpole connectors	19.99
PP45-10	10-pair 45A Powerpole connectors	14.99
PP45-25	25-pair 45A Powerpole connectors	29.99
110G68-5	Retention clips for PP30/45 (5)	2.99
PPC-1	Powerpole weather resistant end cap ..	1.99
TRICrimp	Crimp tool for 15/30/45A Powerpoles ..	39.99
TRIdies	Optional 6-die set for TRICrimp	54.99
PP75-08-2	2-pr 75A Powerpole connectors/8 ga ..	7.99
PPC-1	Powerpole weather resistant end cap ..	1.99
PSC-10-14	6' 45A Powerpole to 1/4" ring term ..	13.99
PSC-10-38	6' 45A Powerpole to 3/8" ring term ..	13.99
PS-4	4-terminal 45A Powerpole splitter	17.99
PS-4 Plus	4-terminal 45A "X" Powerpole splitter ..	17.99
PS-6AA	8-terminal 45A Powerpole tap splitter ..	34.99
PS-8	8-terminal 45A Powerpole splitter	27.99
RB-08-25	25' 8ga red/black DC pwr zip cord	49.99
RB-10-25	25' 10ga red/black DC pwr zip cord	34.99
RB-12-25	25' 12ga red/black DC pwr zip cord	22.99
RB-12-50	50' 12ga red/black DC pwr zip cord	41.99
RB-14-25	25' 14ga red/black DC pwr zip cord	14.99
RGH-10	10g fuseholder/45A Powerpole/ring ..	14.99
RGH-12	12g fuseholder/30A Powerpole/ring ..	12.99
SOC-PP	15A cig socket to Powerpole	14.99
SS-30	25A switch ps, 30A surge/Powerpoles D ..	99.99
SS-30DV	25A switch ps, 30A surge/Powerpoles ..	119.99
PSC-10-14	6' 45A Powerpole to 1/4" ring term ..	13.99
Watt-BLU-PP-C	Watt's Up meter w/Powerpoles	59.99

PRO AM by VALOR (VAL)

120	Sawtooth hump mt for mobile radios ..D	\$ 4.99
HWTGSBNC	112-12GHz on-glass scanner ant/BNC ..	14.99
PHF-12B	12m 8' 3/4-24 whip (4' coil, 4' whip) D ..	6.99
SS-100MOT	3-way NMO mirror mt w/coax	6.99

PRYME (PRE)

AL-800	2m/440 34" BNC rubber duck ant	\$ 29.99
RD-2SMA	2m/440 2" SMA duck	9.99
RD-8	2m/440/900 6.5" BNC duck	14.99
RD-9	2m/440/900 7" BNC duck	18.99
RD-9SMA	2m/440/900 7" SMA duck	19.99
RD-78	2m/440/900 15" BNC whip	19.99
RD-98	2m/440 17" BNC whip	24.99
RD-98SMA	2m/440 17" SMA whip	27.99
SPM-100	Spkr/mic; ADI/Alinco/Icom/Yaesu ...	29.99
SPM-101	Spkr/mic for Kenwood	29.99
SPM-102	Spkr/mic; Yae FT50/60/VX1/3/5/150 ..	29.99
SPM-400A	Boom/mic; ADI/Alinco/Icom/Yaesu ...	39.99
SPM-402A	Boom mic; FT50/60/VX1/3/5/150 ..	39.99
SPM-800B	Open face in-helmet motorcycle headset ..	59.99
SPM-800F	Full face in-helmet motorcycle headset ..	59.99

QSL Card Holders (ART)

QSL Card Holders,	pack of 3, 20 cards/holder ..	\$ 19.99
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RCA (RCA)

RP-7887	Super Radio AM/FM portable Rcvr ..	\$ 59.99
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RF PARTS (See Diamond)**RT SYSTEMS (RTS)**

RTS-03	USB to serial adapter	\$ 22.99
WCS-80	Prog software/USB cable; IC-80AD ..	49.99
WCS-91	Prog software/USB cable; IC-91A/AD ..	49.99
WCS-92*	Prog software/USB cable; IC-92AD ..	49.99
*Icom OPC-1797 adapter cable also required		
WCS-208	Prog software/USB cable; IC-208H ..	49.99

RT Systems - continued AES Price

WCS-2200	Prog software/USB cable; IC-2200H ..	49.99
WCS-2820	Prog software/USB cable; IC-2820H ..	49.99
WCS-7000	Prog software/USB cable; IC-7000 ..	49.99
WCS-D880	Prog software/USB cable; ID-880H ..	49.99
WCS-T70	Prog software/USB cable; IC-T70A ..	49.99
WCS-T90	Prog software/USB cable; IC-T90A ..	49.99
WCS-V80	Prog software/USB cable; IC-V80 ..	49.99
WCS-V8000	Prog software/USB cable; IC-V8000 ..	49.99

RADIO OASIS (RAO)

G5RV/STD	80-10m 102' G5RV antenna	\$ 62.99
G5RV/JUNIOR	40-10m 51' G5RV antenna	47.99
G5RV/MINI	20-10m 25.5' G5RV antenna	40.99

RADIOWAVZ (RAD)

160MC/BALUN	250' 160m dipole w/1:1 balun ..	\$ 79.99
80MC/BALUN	130' 80m dipole w/1:1 balun ..	59.99
40MC/BALUN	66' 40m dipole w/1:1 balun	47.99
30MC/BALUN	46' 30m dipole w/1:1 balun	47.99
20MC/BALUN	32' 20m dipole w/1:1 balun	43.99
17MC/BALUN	26' 17m dipole w/1:1 balun	39.99
15MC/BALUN	22' 15m dipole w/1:1 balun	39.99
12MC/BALUN	19' 12m dipole w/1:1 balun	39.99
10MC/BALUN	17' 10m dipole w/1:1 balun	39.99

160M-DBZ	265' 160m double bazooka ant ..	129.99
75M-DBZ	127' 75m double bazooka ant	79.99
40M-DBZ	70' 40m double bazooka ant	59.99
DX-160	246' 160m OCF windom antenna	149.99
DX-80	136' 80m OCF windom antenna	79.99
DX-40	67' 40m OCF windom antenna	64.99
B-11A	1:1 160-6m voltage balun	24.99
B-11ISO	1:1 160-6m isolation balun	34.99
B-14VA	4:1 160-10m voltage balun	29.99
B-19TX	9:1 160-10m isolation balun	39.99
DPH	Dipole head w/eye hook	9.99

EFH-10	10m 16.75' end fed half wave antenna ..	45.99
EFH-20	20m 33' end fed half wave antenna ..	47.99
EFH-40	40m 66' end fed half wave antenna ..	49.99
EFH-80	80m 132' end fed half wave antenna ..	79.99
EFT-110	1.7-30 MHz 110' end fed inverted V ..	249.99
FTD-20	7-30 MHz 20' folded dipole	*224.99

*Price after instant coupon; coupon expires 11/24/10

FTD-45	5-30 MHz 45' folded dipole	*224.99
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*Price after instant coupon; coupon expires 11/24/10

FTD-65	3-30 MHz 65' folded dipole	*224.99
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*Price after instant coupon; coupon expires 11/24/10

FTD-90	1.8-30 MHz 90' folded dipole	*224.99
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*Price after instant coupon; coupon expires 11/24/10

FT-DMK	Mtg kit; folder dipole w/3 pole installation ..	45.99
G5RV	102' G5RV antenna, 28' tall	43.99
G5RV JR	51' G5RV antenna, 14' tall	32.99
G5RV LITE	67' G5RV antenna, 28' tall	54.99
G5RV MAX	204' G5RV antenna, 56' tall	79.99

HP-B11C	1:1 current choke high power balun ..	75.99
HP-B11D	1:1 current dipole high power balun ..	75.99
HP-B14C	4:1 current high power balun	97.99
HP-B14VT	4:1 tuner extender high power balun ..	79.99
HP-B19LW	9:1 long wire high power balun ...	97.99
HP-ISDX	High power RF isolation transformer ..	79.99

J8X-U1	1.5' RG-8X coax/silver teflon PL259s ..	9.99
J8X-U3	3' RG-8X coax/silver teflon PL259s ...	11.99
J8X-U6	6' RG-8X coax/silver teflon PL259s ...	14.99
J8X-U12	12' RG-8X coax/silver teflon PL259s ..	22.99
J8X-U25	25' RG-8X coax/silver teflon PL259s ..	29.99
J8X-U50	50' RG-8X coax/silver teflon PL259s ..	37.99
J8X-U75	75' RG-8X coax/silver teflon PL259s ..	49.99
J8X-U1X	100' RG-8X coax/silver teflon PL259s ..	63.99

PSTVAS-SMA	6m/2m/220/440 SMA ant sys for vest ..	49.99
TL308-100	100 ft 18ga 300 ohm twinlead ...	24.99
WCCS147-100	#14 stranded ant wire, 100 ft.	14.99
WCCS147-250	#14 stranded ant wire, 250 ft.	35.99

AES Price**SGC (SGC)**

52-96	SG-500 1.8-24MHz 12v 500w PEP amp ..	1349.99
51-82	Fan kit; continuous duty xmit SG500 ..	220.99
54-14	SG-230 200w 1.8-30 MHz 12v Smartuner ..	499.99
54-15	SG-235 500w 1.8-30MHz 12v Smartuner ..	1099.99
54-18	SG-237 100w PEP HF+6m mini Smartuner ...	299.99
54-22	SG-239 200w Smartuner	195.99
54-63	SmartLock; SG230/237/239 after 9/1/93 ..	60.99
54-25	MAC-200 Smartuner/ant switch combo ..	265.99
70-14	ADSP2 DSP noise reduction speaker ..	159.99

SAMLEX (SAM)

FCP-1000	1A ps w/cigarette lighter socket	\$ 7.99
SEC-1223	23A switching power supply w/fan	99.99
SEC-1235	30A switching ps w/fan, 35A surge	119.99
SEC-1235M	30A switch ps/fan/meters, 35A surge ..	139.99
SI-175HP	175w 12vdc-115vac inverter	24.99
SI-400HP	400w 12vdc-115vac inverter	39.99
SPS-1204UL	3.5A switching ps+cig socket ..	29.99

SANGEAN (SAN)

ATS-404	AM/FM/SW portable receiver w/case ...	\$ 79.99
ATS-505P	AM/FM/SW portable receiver	129.99
ATS-606AP	AM/FM/shortwave portable Rcvr..D ..	99.99
ATS-909	AM/FM/shortwave portable Rcvr	199.99
FREE DT-300VW FM/WX Rcvr w/ATS-909! limited time!		
HDR-1	AM/FM/HD table-top radio	179.99
HDT-1	HD radio component tuner	179.99
RCR-2	AM/FM atomic clock radio	69.99
WFR-20	Wi-Fi internet radio & media player ..	279.99
WR-1	AM/FM wooden cabinet receiver	89.99
WR-11	AM/FM wooden cabinet receiver	99.99
ANT-60	Portable wind-up SWL antenna	13.99

SEQUOIA (SEQ)

POCKET PC REF	Pocket PC reference book ...	\$ 15.99
POCKET REF	Pocket reference book	12.99

SHAKESPEARE (SHA)

396-1	3db 5' VHF marine ant, less mount	\$ 69.99
5202	6db 8' VHF mar ant/chrome ferrule, less mt ..	109.99
5206-C	Econo 8' VHF mar ant/chrome ferrule, no mt ..	59.99
4187	Stainless steel ratchet mount	39.99
5215	3db 36" sailboat VHF marine ant w/mt ..	49.99
420	3db 5' VHF marine ant w/fold-down mt ..	69.99
PL-259-CP-G	Solderless PL-259; RG-8X/58 ..	7.99
PL-258-CP-G	Solderless splice; RG-8X/58	11.99

SIGNALINK (SIG)

SL-USB-6PM	6-pin mini DIN data/accessory port ..	\$ 99.99
SL-USB-8PD	8-pin DIN data/accessory port ..	99.99
SL-USB-8R	8-pin round mic connector	99.99
SL-USB-13I	Icom 13-pin DIN accessory port ..	104.99
SL-USB-13K	Kenwood 13-pin DIN accessory port ..	104.99

Smiley Antenna (SMI)

14610	2m BNC Super Stick 3/4 wv telescopic ant ..	\$ 19.99
14620	2m BNC 3/4 Slim Duck rubber ant	19.99
14626	2m SMA 3/4 Slim Duck rubber ant	19.99
14629	2m BNC 3/4 duck & stubby ants	19.99
14630	2m BNC Slim Duck thin rubber ant	6.99
14650	2m BNC rubber duck antenna	15.99
14656	2m SMA rubber duck antenna	15.99
14680	2m 1/2 wave BNC whip/flex coil	25.99
22019	220 BNC 3/4 wv tele & stubby ants	9.99
22020	220 BNC 3/4 Slim Duck rubber ant	9.99
22030	220 BNC Slim Duck thin rubber ant	2.99
22050	220 BNC rubber duck antenna	15.99
22060	220 BNC stubby rubber duck ant	4.99
22200	2m/220 BNC Thin Stick 3/4 wave tele whip ..	16.99
27000	2m/220/440 BNC gain telescopic whip ..	19.99
27006	2m/220/440 SMA gain telescopic whip ..	19.99
44010	440 BNC Super Stick 3/4 wv tele ant	19.99
44019	440 BNC 3/4 wv tele & stubby ants	12.99
44020	440 BNC 3/4 Slim Duck rubber ant	19.99

Smiley - continued AES Price

44029 440 BNC ¼ duck & stubby ants	9.99
TAQ-2 2m ¼ wave stainless whip	9.99
TAQ-220 220 ¼ wave stainless whip	4.99
TAQ-440 440 ¼ wave stainless whip	4.99

SOLARCON (SOL)

A-99 10m/CB 17' 8" fiberglass base ant	\$ 89.99
GP-K1 Ground plane radial kit	64.99

SONY SHORTWAVE (SON)

ICF-SW7600GR AM/FM/SW portable Rcvr	\$159.99
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STICKY PAD (STI)

13810 7¼" x 4½" sticky pad for handhelds, etc	\$ 5.99
13820 8¼" x 6½" sticky pad for larger items	9.99

Synthetic Textiles (SYN)

100' ¾" black double braided rope	\$ 9.99
100' 3/16 ¾" black double braided rope	18.99
100' 5/16 ¾" black double braided rope	26.99
350' ¾" black double braided rope	49.99

TalkSafe (TAL)

TS-062-802 TalkSafe main unit; HT's/FT-817	\$149.99
TS-062-835 Mic cable for Yaesu FT-817	9.99
TS-062-836 Mic cable for Yaesu threaded	9.99
TS-062-837 Mic cable for Kenwood	9.99
TS-062-838 Mic cable; Yaesu single pin	9.99
TS-062-842 Mic cbl; 2-pin Alinco/Icom/Yaesu	9.99
TS-062-813 Mic cable; Ali/Ico modular RJ-45	9.99
TS-062-814 Mic cable; Yae modular RJ-12	9.99
TS-062-815 Mic cable; Ken/Yae modular RJ-45	9.99
TS-062-818 Mic cable; Ali/Ken 8-pin round	9.99
TS-062-819 Mic cable; Ico/Yae 8-pin round	9.99

TARHEEL Antennas (TAR)

Little Tarheel II 80-6m 200w PEP motorized ant	\$379.99
(AMR) SDC-102 Prog screwdriver controller	129.99
(DIA) K-400-3/8C Tnk mt w/6.5' cable; ¼-24	73.99
100A-HP Pack 80-10m 1.5kw PEP motorized ant	499.99
(AMR) SDC-102 Prog screwdriver controller	129.99
Other Tarheel models and colors are available on special order. Please call for information.	

Terk Technologies (TER)

Advantage Indoor passive fine-tunable AM ant	\$ 49.99
HDTV-1 Indoor UHF/VHF HDTV antenna	49.99
LF-30S 2.4GHz wireless vid/aud sys/rem features	99.99
PI-B Indoor AM/amplified FM loop antenna	49.99
Tower Indoor AM/amplified FM tower ant	27.99
TV-55 Indoor/outdoor amplified HDTV antenna	99.99

Times Microwave (TMS)

LMR-400 Standard ¾" coax cable	\$.93
LMR-400	500 ft. Roll 359.99
LMR-400-DB Watertight ¾" coax cable per ft.	1.05
LMR-400-DB	500 ft. Roll 409.99
LMR-400-UF UltraFlex ¾" coax cable	per ft. 1.40
LMR-400-UF	500 ft. Roll 549.99

TIMEWAVE (TIM)

ANC-4 RF noise canceller	\$199.99
AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	22.99
DSP-599zx All-mode DSP noise filter	399.99
AC-5 12vdc 1.7A desktop ps	22.99
AC-9 12vdc 1A wall mount ps for DSP-599zx	24.99
PK-96/100K 9600 baud controller/128K RAM	219.99
AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	22.99
PK-232/PSK Multimode controller w/sound card	499.99
PK-232/USB Multimode controller/sound card/USB	529.99
AC-1 12vdc 600 ma adapter	15.99
AC-5 12vdc 1.7A desktop ps	22.99
TZ-900N .2-55MHz type N antenna analyzer	899.99
TZ-900S .2-55MHz S0239 antenna analyzer	899.99

TRIPP LITE (TRI)

ISOBAR-8 ULTRA 8 outlet surge suppress/LEDs	\$ 79.99
SUPER-7 7 outlet surge suppressor	19.99
SUPER-7+TEL 7 outlet/fax modem surge	29.99

TUBES (TUB)

6146B Tube	\$ 29.99
12BY7A Tube	34.99
3-500ZG-RFP High dissipation tube (3-500Z)	229.99
572B Tube	59.99
811A Tube	24.99

US TOWER (UST)**FREE STANDING CRANK-UPS (not for T²X)**

TX-438 38' crank-up tower	T 1799.99
TX-455 55' crank-up tower	T 2499.99
TX-472 72' crank-up tower	T 4099.99
TX-472MDP 72' crank-up w/motor drive	T 6599.99
TX-489MDPL 89' crank-up w/motor drive	T 10699.99

FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up tower	T 2149.99
HDX-555 55' crank-up tower	T 3749.99
HDX-572MDPL 72' crank-up w/motor drive	T 9799.99
HDX-589MDPL 89' crank-up w/motor drive	T 12799.99
HDX-689MDPL 89' HD crank-up w/motor	T 25249.99
HDX-5106MDPL 106' HD crank-up w/motor	T 27469.99

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up tower	T 1949.99
TMM-433HD 33' HD crank-up tower	T 2349.99
TMM-541SS 41' crank-up tower	T 2549.99

ACCESSORIES FOR CRANK-UP TOWERS

CX-2 Coax arms (2) for 2-section tower	\$ 89.99
CX-3 Coax arms (3) for 3-section tower	119.99
CX-4 Coax arms (4) for 4-section tower	194.99
CX-5 Coax arms (5) for 5-section tower	249.99
CX-6 Coax arms (6) for 6-section tower	329.99
IV-16 Inverted vee arm for MA's	67.99
M-5 2" OD 5' mast extension for MA's	67.99
M-10 2" OD 10' mast	T 119.99
M-15 2" OD 15' mast	T 179.99
M-15R 2" OD 15' reinforced mast	T 269.99
M-20 2" OD 20' mast	T 229.99
M-20R 2" OD 20' reinforced mast	T 349.99
CM-20 2" OD 20' cromolly mast	T CALL
HDP Service platform	T 1819.99
MD-75 Heavy duty 1 HP motor drive	T 1479.99
MDP-750* Pull-down drive; TX-472/HDX-555	T 2299.99
MDPL-1000* Pull-down drive; HDX-572	T 3119.99

*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately

MRF Mast raising fixture	449.99
MCL-100 Limit switch package	699.99
RMC-1000 Remote control w/limit switch	1479.99
TRX-80 Raising fixture; TX-438/455; HDX-538/555	T 679.99
TRX-80HD Raising fixture; TX-472/489; HDX-572/589	T 899.99
TRX-100HD Raising fixture; HDX-689/5106	T 1199.99
TB-2US Thrust bearing; 2" mast w/2 flange holes	169.99

MA-SERIES TUBULAR TOWERS

MA-40 40' crank-up tubular tower	T 1449.99
MA-550 55' crank-up tubular tower	T 2249.99
MA-550MDP 55' crank-up tubular w/motor	T 4299.99
MA-770* 70' crank-up tubular tower	T 3699.99
MA-770MDP* 70' crank up tubular w/motor	T 5799.99
MA-850* 85' crank-up tubular tower	T 5699.99
MA-850MDP* 85' crank-up tubular w/motor	T 7799.99

*Requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M Coax arms (2) for MA-40	\$ 94.99
CX-3M Coax arms (3) for MA-550	139.99
CX-4M Coax arms (4) for MA-770	229.99
CX-5M Coax arms (5) for MA-850	279.99

AES Price

US Tower - continued

AES Price

MAB-40 Hinged base for MA-40	T 569.99
MAB-550 Hinged base for MA-550	T 669.99
MAB-770 Hinged base for MA-770	T 799.99
MAB-850 Hinged base for MA-850	T 1049.99
MAF-40 Raising fixture for MA-40	369.99
MAF-550 Raising fixture for MA-550	T 499.99
MAF-770 Raising fixture for MA-770	T 599.99
MAF-850 Raising fixture for MA-850	T 729.99
MARB-40 Rotor base accessory for MA-40	T 869.99
MARB-550 Rotor base accessory for MA-550	T 979.99
MARB-770 Rotor base accessory for MA-770	T 1169.99
MARB-850 Rotor base accessory for MA-850	T 1379.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)**UNIDEN (UNI)**

PC-68 Elite AM Mobile CB w/WX alert	\$ 99.99
PC-68LTW AM Mobile CB w/WX alert	79.99
PC-68XL AM Mobile CB	74.99
PC-78 Elite AM Mobile CB w/WX alert	119.99
PC-78LTW AM Mobile CB w/WX alert	99.99
PC-78XL AM Mobile CB	94.99
PRO-510XL AM Mobile CB	39.99
PRO-520XL AM Mobile CB	54.99
PRO-538W AM Mobile CB w/WX	59.99

UNIDEN BEARCAT

Home Patrol Easy to use programmed scanner	\$519.99
BC-340CRS 100 ch scanner w/SAME WX	99.99
BC-355C 300 ch prog/service search	109.99
BC-370CRS 300 ch scanner/800/SAME WX	139.99
BCD-996XT Prog scanner/trunk/SAME WX/dig	519.99
BCT-8 Preprog warning scan/800/trunk/AC ps	179.99
BCT-15X Prog scanner/800/trunk	239.99
BC-72XLT 100 ch pocket scanner	99.99
BC-95XLT 200 ch prog pocket scanner/800	119.99
BC-346XT Pocket scanner w/trunking	219.99
BADG0687001 DC cord	22.99
BCD-396XT Pocket scan/trunking/SAME/digital	519.99
BADG0687001 DC cord	22.99
BP-180 Extra battery for BC-245XLT	16.99
NC-246T Carrying case for BC-246T	6.99
UA-502 Cig power cord	4.99

MARINE

Atlantis-250 5w VHF marine handheld	\$ 89.99
Voyager 5w VHF marine handheld/lith ion batt	119.99
Oceanus-DSC 25w 90 ch VHF marine Xcvr/DSC	D 119.99
Solara-DSC 25w 90 ch VHF marine Xcvr/DSC	89.99

Unified Microsystems (UNM)

VK-64 CW/voice keyer	\$219.99
KC-4 CW cable for VK-64 to transceiver	9.99
VKC-8 8-pin audio cable for VK-64 to Xcvr	24.99
XT-4 Small size CW memory keyer	69.99
KC-4 CW cable for XT-4 to transceiver	9.99
WX9T Contest card for IBM PC & compatible	29.99
CCC-8 8pin mic contest card cable semi-kit	1.99

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum tower	T \$403.99
9-30 9 sq ft wind load 30' alum tower	T 532.99
12-30 12 sq ft wind load 30' alum tower	T 682.99

Universal - continued **AES Price**

21-30	21 sq ft wind load 30' alum tower ....T	810.99
23-30	23 sq ft wind load 30' alum tower ....T	1069.99
35-30	35 sq ft wind load 30' alum tower ....T	1235.99
4-40	4 sq ft wind load 40' alum tower .....T	678.99
7-40	7 sq ft wind load 40' alum tower .....T	828.99
9-40	9 sq ft wind load 40' alum tower .....T	919.99
12-40	12 sq ft wind load 40' alum tower ....T	1069.99
15-40	15 sq ft wind load 40' alum tower ....T	1196.99
21-40	21 sq ft wind load 40' alum tower ....T	1347.99
23-40	23 sq ft wind load 40' alum tower ....T	1604.99

4-50	4 sq ft wind load 50' alum tower .....T	927.99
5-50	5 sq ft wind load 50' alum tower .....T	1037.99
7-50	7 sq ft wind load 50' alum tower .....T	1166.99
9-50	9 sq ft wind load 50' alum tower .....T	1292.99
15-50	15 sq ft wind load 50' alum tower ....T	1714.99
16-50	16 sq ft wind load 50' alum tower ....T	1874.99

4-60	4 sq ft wind load 60' alum tower .....T	1310.99
6-60	6 sq ft wind load 60' alum tower .....T	1584.99
7-60	7 sq ft wind load 60' alum tower .....T	1696.99
9-60	9 sq ft wind load 60' alum tower .....T	1827.99

3-70	3 sq ft wind load 70' alum tower .....T	1692.99
4-70	4 sq ft wind load 70' alum tower .....T	2088.99
6-70	6 sq ft wind load 70' alum tower .....T	2107.99
7-70	7 sq ft wind load 70' alum tower .....T	2236.99

3-80	3 sq ft wind load 80' alum tower .....T	2239.99
4-80	4 sq ft wind load 80' alum tower .....T	2650.99
2-90	2 sq ft wind load 90' alum tower .....T	2756.99

B-14	Base for tower	93.99
B-18	Base for tower	93.99
B-22	Base for tower	133.99
B-26	Base for tower	164.99

Extra 14"	stubs (between base & tower) .set	18.99
Extra 18"	stubs (between base & tower) .set	35.99
Extra 22"	stubs (between base & tower) .set	55.99
Extra 26"	stubs (between base & tower) .set	55.99

RFM-11	Flat roof mt for guyed tower	58.99
RFM-14	Flat roof mt for guyed tower	60.99
RFM-18	Flat roof mt for guyed tower	96.99
RFM-22	Flat roof mt for guyed tower	121.99
RFM-26	Flat roof mt for guyed tower	161.99

R-11	Rotor mount	45.99
R-14	Rotor mount	65.99
R-18	Rotor mount	79.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top	11" top tower section .....T	132.99
14 Top	14" top tower section .....T	167.99
18 Top	18" top tower section .....T	303.99

14 Taper	14" taper tower section .....T	147.99
18 Taper	18" taper tower section .....T	264.99
22 Taper	22" taper tower section .....T	394.99
26 Taper	26" taper tower section .....T	563.99

11 Straight	11" straight tower section .....T	131.99
14 Straight	14" straight tower section .....T	147.99
18 Straight	18" straight tower section .....T	264.99
22 Straight	22" straight tower section .....T	394.99
26 Straight	26" straight tower section .....T	563.99

HD35-40	35 sq ft wind load 40' alum tower T	1819.99
HD21-50	21 sq ft wind load 50' alum tower T	1943.99
HD9-60	9 sq ft wind load 60' alum tower ...T	2052.99
HD16-60	16 sq ft wind load 60' alum tower T	2484.99
HD21-60	21 sq ft wind load 60' alum tower T	2552.99

HD8-70	8 sq ft wind load 70' alum tower ...T	2304.99
HD12-70	12 sq ft wind load 70' alum tower T	2835.99
HD17-70	17 sq ft wind load 70' alum tower T	3124.99
HD21-70	21 sq ft wind load 70' alum tower T	3194.99

HD8-80	8 sq ft wind load 80' alum tower ...T	2970.99
HD9-80	9 sq ft wind load 80' alum tower ...T	3069.99
HD11-80	11 sq ft wind load 80' alum tower T	3471.99
HD12-80	12 sq ft wind load 80' alum tower T	3483.99

Universal - continued **AES Price**

HD16-80	16 sq ft wind load 80' alum tower T	3702.99
HD4-90	4 sq ft wind load 90' alum tower ...T	3112.99
HD8-90	8 sq ft wind load 90' alum tower ...T	3613.99
HD11-90	11 sq ft wind load 90' alum tower T	4080.99
HD4-100	4 sq ft wind load 100' alum tower T	4060.99
HD8-100	8 sq ft wind load 100' alum tower T	4335.99

B-30	Base for HD tower	252.99
Extra 30"	stubs (between base & tower) .set	85.99
RFM-30	Flat roof mt for guyed tower	222.99

30 Taper	30" taper tower section .....T	634.99
30 Straight	30" straight tower section .....T	634.99

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC	Flange bearing	102.99
2-3/16SC	Flange bearing	114.99
Top Plate	Flange plate welded to top section	27.99

1-1/4" OD	x 5 ft aluminum mast	25.99
1-1/4" OD	x 10 ft aluminum mast	40.99

1-1/2" OD	x 10 ft aluminum mast	49.99
2" OD	x 8 ft aluminum mast	60.99

2" OD	x 16 ft aluminum mast	110.99
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All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

VALOR (See PRO AM)**VANCO (VCO)**

370052	3 1/2 digit multimeter	\$ 6.99
CL-3	Extra heavy duty alligator clip leads (10)	9.99
SWR-1	SWR/field strength meter	29.99
SWR-3	Mini SWR meter	19.99

VECTRONICS (VEC)

DL-300M	300w 150MHz dummy load	\$ 49.99
DL-650M	1.5kw 650MHz dummy load	79.99
DL-2500	2.5kw 150MHz dummy load	199.99
HFT-1500	1.5kw antenna tuner	439.99

HPF-1	High pass filter, 75 or 300 ohms	24.99
HPF-2	Deluxe high pass filter, 75 or 300 ohms	34.99
LP-30	1.5kw low pass filter	89.99

LP-2500	2.5kw low pass filter	129.99
PM-30HF	300/3kw HF/6m wattmeter	89.99
PM-30UV	30/300w 2m/220/440 wattmeter ..	99.99

VC-300DLP	300w antenna tuner	169.99
VC-300M	300w mobile antenna tuner	129.99
121K	Crystal radio set kit	19.99

131K	Aircraft receiver kit	29.99
201K	CW keyer kit	24.99
422K	FM broadcast SCA decoder kit	14.99

830K	Super SSB audio filter kit	19.99
1140K	40m receiver kit	29.99
1240K	40m QRP CW transmitter kit	29.99

1290K	AM radio transmitter kit	29.99
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VELLEMAN (VEL)

AVM-2050	Analog sound level meter	\$ 29.99
AVW-089	3 channel audio/video switcher	8.99
DVM-810	3 1/2 digit digital multimeter	9.99
DVM-850BL	Deluxe 3 1/2 digit DMM w/holder ...	19.99

EL-301	30 in 1 electronic lab kit	39.99
EL-1301	130 in 1 electronic lab kit	89.99
EL-3001	300 in 1 electronic lab kit	129.99

Velleman - continued **AES Price**

K/TF	75-piece cable ties	2.99
MP-25SFM	25w megaphone	49.99
SOL-8	13w solar panels w/case	149.99
SOLD-250GLF	.55 lb lead-free solder, .04 dia	19.99
T-5S	PVC insulation tape	4.99
TLM-2	Test lead set w/banana plugs	2.99
TLM-10	Test probe set	6.99

VT-BT6	33-piece screwdriver bit set	6.99
VT-COAX	Coax stripper; RG-58/59/62/6	14.99
VT-D2	Heavy duty desoldering pump	4.99
VT-HD03U	62-pc rechargeable precision drill set	24.99

VT-LAMP2BNU	Hobby magnifier lamp w/table mt	49.99
VT-M468L	Crimp tool for RJ-11/12/45	9.99
VT-SET	5-piece pliers	9.99
VT-SET3N	6-pc electronics screwdriver set ...	9.99

VT-TS	25-piece hobbyist tool set	9.99
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VIBROPLEX (VIB)

100	Original Presentation Super deluxe bug	\$299.99
105	Original Deluxe Bug	239.99
110	Original Standard Bug	199.99
115	VibroKeyer Deluxe Paddle	189.99
120	VibroKeyer Standard Paddle	159.99

125	Iambic Presentation Paddle	269.99
130	Iambic Deluxe Paddle	199.99
135	Iambic Standard Paddle	159.99
145	Triangular Brass Racer Iambic paddle	139.99

150	Square Brass Racer Iambic paddle	149.99
155	Standard straight key	159.99
160	Deluxe straight key	189.99
165	Deluxe Hand key/Iambic Paddle double	349.99

190	Square Racer Standard Iambic paddle	129.99
195	Blue Racer 2000 Std Millennium Bug ...	209.99
200	Code Warrior Junior Paddle	99.99
CP-3	Cord & plug for Iambic & Vibrokeyer ...	9.99

WA1FFL	(WA1)	
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Ladder-Loc	450 ohm ladderline center attach	\$ 12.99
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W2AU (Unadilla) (W2A)

W2AU 1:1	160-10m balun, lightning arrestor	\$ 26.99
W2AU 4:1	160-10m balun, lightning arrestor	26.99
W2AU Beam Balun	1:1 HF balun	27.99

W2DU-HF	1:1 1.8-30 MHz choke balun	28.99
W2DU-VHF	1:1 30-250 MHz choke balun	28.99
W2DU Beam Balun	40-10m 1:1 HF choke balun	29.99

HA	AN-sulator center insulator	11.99
HE	END-sulator end insulators	6.99
KW-80CW	Reyco 80m CW ant traps	52.99

KW-80F	Reyco 75m phone ant traps	52.99
KW-60	Reyco 60m antenna traps	49.99
KW-40	Reyco 40m antenna traps	47.99
KW-30	Reyco 30m antenna traps	47.99

KW-20	Reyco 20m antenna traps	46.99
KW-17	Reyco 17m antenna traps	46.99
KW-15	Reyco 15m antenna traps	45.99
KW-12	Reyco 12m antenna traps	45.99

KW-10	Reyco 10m antenna traps	45.99
W2AU/W2VS	5-band ant kit (use tuner)Δ	85.99
W2AU/W2VS NoWire	5band ant kit (use tuner) less wire	78.99

W4RT	(W4R)	
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KB-2	Cable for Ant Boss II w/LDG K-OTTD	\$.49
YB-2	Cable; Ant Boss II w/W4R YB-OTTD	.49

Mini VNA	Software defined antenna analyzer	399.99
0BF-703/718-DIY	CW&SSB Collins filts;IC703/718	249.99
0BF-817/ND-DIY	CW & SSB Collins filts;FT-817	249.99

0BP-STD	Speech compress; 817/47/57/97 handmic	69.99
0BP-UNIV	Speech compress; IC706/FT100 handmic	69.99
OPF-Y-CW-300	300Hz CW filter;FT817/57/97/2000	119.99

OPF-CW	500Hz CW filter; FT817/57/97/2000	114.99
OPF-SSB	2.3KHz Collins SSB filter; FT817/57/97	134.99

W5YI (W5Y)

BCOM	Basic Communications Electronics book	\$ 19.99
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W5YI - continued

BDIG Basic Digital Electronics book	19.99
BELC Basic Electronics book	19.99
ECS-08 Extra upgrade software w/manual ...	49.99
GROL-09 Commercial license elements 1/3/8 manual	49.99
GRSP-09 Commercial study software w/GROL book	79.99
GSTD Getting Started in Electronics book	19.99
GUS-07 General upgrade software w/manual	44.99
GW05/CD Gordon West 8 ea 0-5 wpm code CD's	39.99
GWCT Gordon West refresher code course CD's	14.99
GWEM-08 Gordon West Extra study manual ..	24.95
GWEW-08 Gordon West 6 ea Extra theory CD's	39.95
GWGM-07 Gordon West General study manual	20.95
GWGW-07 Gordon West 4 ea General theory CD's	29.95
GWTM-10 Gordon West Tech study manual ...	20.95
GWTW-10 Gordon West 4 ea Tech theory CD's	27.95
HOS-10 Ham operator software/ (all classes)	29.99
HOSB-10 Ham op soft/3 books/ (all classes) ..	84.99
Mini-1 Timer, op amp & optoelectronics	12.99
Mini-2 Science & communications	12.99
Mini-3 Electronic sensor circuits	12.99
Mini-4 Electronic formulas, symbols & circuits	12.99
NCS-10 Technician software w/manual	39.99
WWLG Worldwide Listening Guide	24.99

WAHL ISOTIP (WAH)

7740 Quick charge cordless soldering iron kit	\$ 49.99
7971 30 minute butane soldering iron	25.99
7974 120 minute butane soldering iron	39.99

WELLER (WEL)

7200PK 75w soldering gun kit	\$ 29.99
7235 Extra standard tips (2) for 7200PK ...	3.99
SP-23LK 25w soldering iron kit	17.99
WP-25 25w professional soldering iron	38.99
ST-4 3/8" screwdriver tip for WP-25	3.99
ST-5 1/2" single flat tip for WP-25	3.99
W-60P 60w temp controlled soldering iron ...	73.99
WESD51 50w adjustable soldering station ...	169.99
WSTA3 Pyrophen portable LP soldering iron ...	129.99
WTCPT 60w temp controlled soldering stn	149.99

West Mtn Radio (WES)

CBA/TEMP Temperature probe for CBA-2	\$ 6.99
CLR/DSP ClearSpeech DSP noise reduction processor	219.99
CLR/SPKR ClearSpeech DSP noise reduction spkr	219.99
CS-1 COMspkr speaker system for ham station PC	39.99
CW/SWITCH Stand alone 2-rig CW bk-in switch	59.99
ISO/PWR Auxiliary battery isoator	79.99
PG-40S PWRgate backup power sys w/charger	139.99
RB/DU/CUSB Rigblaster Duo; 8-pin/RJ-45	349.99
CW/SWITCHDUO 2-rig CW bk-in switch; RB/DU	59.99
RB/PR/CUSB Rigblaster Pro; 8-pin/RJ-45	299.99
RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45 ..D	139.99
RB/PL2/CUSB Rigblaster Plus II plug & play	159.99
RB/NO/CUSB Rigblaster nomic universal; 8pin/RJ45	59.99
FT100/CBL 3' cable; Yaesu RJ-45/6-wire ...	18.99
RB/PP* Rigblaster plug & play USB data/aux jack	119.99
*Call before ordering for proper configuration with radio	
CATMINI/CBL Yaesu rig control cbl for RB/PP	13.99
CIV/CBL Icom/TenTec rig control cbl; RB/PP	9.99
RPA/I8D Icom 8-pin DIN acc1 jack adapter	9.99
RPA/I13D Icom 13-pin DIN aux jack adapter	9.99
RPA/K13D Kenwood 13-pin DIN aux jack adapt	9.99
RR/4004/USBC Rigrunner USB 40A 4outlet/cbl/conn	94.99
RR/4005/C Rigrunner 40A 5outlet/cbl/connectors	84.99
RR/4005H/C Rigrunner horizontal 5outlet/cbl/conn	84.99
RR/4008/C Rigrunner 40A 8outlet/cbl/connectors	119.99
RR/4008H/C Rigrunner horizontal 8outlet/cbl/conn	109.99
RR/4010S/C Rigrunner FET 9outlet/cbl/connectors	149.99
RR/4012/C Rigrunner 40A 12outlet/cbl/connectors	129.99
RR/8012/C Rigrunner 80A 12outlet/cbl/connectors	159.99
C30/PK/12 12-pair 30A PowerPole connectors	12.99
C45/PK/12 12-pair 45A PowerPole connectors	17.99
PWR/TOOL PWRcrimp PowerPole crimp tool	39.99

AES Price**West Mtn - continued**

RT-1 Rigtalk USB rig control interface	54.99
CATMINI/CBL Yaesu cable for RT-1	13.99
CIV/CBL Icom/Ten-Tec cable for RT-1	9.99
WHAT/MTR Whattmeter watt/volt/amp/amp hr	74.99

Wiley Publishing (WIE)

GPS Dummies Gps for Dummies book	\$ 24.99
HR for Dummies Ham Radio for Dummies book	21.99
WX for Dummies Weather for Dummies book	21.99

WILSON (WIL)

FGT-4/BLK 4' black fiberglass CB whip	\$ 19.99
FGT-4/WHI 4' white fiberglass CB whip	16.99
Trucker 2000 Black mobile 3/4-24 CB whip	39.99
W-1000 Trunk Lip Black mobile CB antenna ..	49.99

WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors ...	\$ 16.99
CX-0650 50' RG-6 TV coax w/F connectors ..	24.99
CX-0675 75' RG-6 TV coax w/F connectors ..D	29.99
CX-6100 100' RG-6 TV coax w/F connectors ..	34.99
HD-7010 9 el VHF/13 el UHF 66.5" bm HDTV ant	89.99
HD-7084P 28 el VHF/40 el UHF 131" bm HDTV ant	199.99
HD-9075P 26 el 60" boom UHF HDTV ant	99.99
HD-9095P 39 el 95" boom UHF HDTV ant	129.99
TV-2900 Outdoor TV matching transformer	6.99

YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr ..DS Call/Web
FTDX-9000 Contest and installed accessories (DS) are drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

DMU-9000 Data management unit	DS 1000.00
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MH-31B8 Extra hand microphone	49.99
MTU-160/DS 160m MTU unit	DS 433.99
MTU-30/20/DS 30/20m MTU unit	DS 433.99
MTU-80/40/DS 80/40m MTU unit	DS 433.99
RXU-9000 Dual receive unit	DS 1700.00
VRF-9000 VRF unit for RXU-9000 (required) DS	189.99
SP-9000 Ext dual spkr sys/audio flt; D/Contest	369.99
TFT-9000 TFT display unit	DS 1100.00
YH-77STA Open-air type stereo headphones	59.99

FTDX-9000D Deluxe 200w HF/6m Xcvr ...DS Call/Web
FTDX-9000D is drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MH-31B8 Extra hand microphone	49.99
SP-9000 Ext dual spkr sys/audio flt; D/Contest	369.99
YH-77STA Open-air type stereo headphones	59.99

FTDX-9000MP Hi Power 400w HF/6m Xcvr DS Call/Web

FTDX-9000MP and installed accessories (DS) are drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MH-31B8 Extra hand microphone	49.99
MTU-160/DS 160m MTU unit	DS 433.99
MTU-30/20/DS 30/20m MTU unit	DS 433.99
MTU-80/40/DS 80/40m MTU unit	DS 433.99
SP-9000 Ext dual spkr sys/audio flt; D/Contest	369.99
TFT-9000 TFT display unit	DS 1100.00
YH-77STA Open-air type stereo headphones	59.99

FTDX-5000 200w HF/6m Xcvr Call/Web |

DMU-2000 Data management unit	Call/Web
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SM-5000 Station monitor	375.99
SP-2000 External speaker w/audio filters ..	199.99

Yaesu - continued**AES Price**

T-9101556 Rotor control cable	25.99
XF-126CN 300Hz CW roofing filter	179.99
YH-77STA Open-air type stereo headphones	59.99
FTDX-5000D 200w HF/6m Xcvr/stn monitor	Call/Web
DMU-2000 Data management unit	Call/Web
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SP-2000 External speaker w/audio filters ..	199.99
T-9101556 Rotor control cable	25.99
XF-126CN 300Hz CW roofing filter	179.99
YH-77STA Open-air type stereo headphones	59.99
FTDX-5000MP 200w HF/6m/mon/filt/OCXO	Call/Web
DMU-2000 Data management unit	Call/Web
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SP-2000 External speaker w/audio filters ..	199.99
T-9101556 Rotor control cable	25.99
YH-77STA Open-air type stereo headphones	59.99
FT-2000 100w HF/6m DSP Xcvr/ps	Call/Web
FT-2000D 200w HF/6m DSP Xcvr/ps	Call/Web
(W4R) OPF-Y-CW-300 300Hz Collins CW filter	119.99
(W4R) OPF-CW 500Hz Collins CW filter	114.99
CT-119 Firmware upgrade cable; FT2000/D	28.99
DMU-2000 Data management unit	Call/Web
FH-2 Remote keyboard	99.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MH-31B8 Extra hand microphone	49.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SP-2000 External speaker w/audio filters ..	199.99
T-9101556 Rotor control cable	25.99
YF-122C 500Hz Collins CW filter	169.99
YF-122CN 300Hz Collins CW filter	169.99
YH-77STA Open-air type stereo headphones	59.99
FT-950 HF/6m Xcvr/IF-DSP/tuner	Call/Web
(BET) Yae Tune Control for FT-950	44.99
CT-118 Control cable; FT-950 to Quadra	39.99
DMU-2000 Data management unit	Call/Web
DVS-6 Voice memory unit	69.99
FC-40 Automatic wire antenna tuner	299.99
FH-2 Remote keyboard	99.99
FP-1023 23A switching ps w/fan, 25A surge ...	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MTU-160 u-tuning kit A for 160m	Call/Web
MTU-80/40 u-tuning kit B for 80/40m	Call/Web
MTU-30/20 u-tuning kit C for 30/20m	Call/Web
SP-2000 External speaker w/audio filters ..	199.99
T-9101556 Rotor control cable	25.99
T-9023725 Extra DC cable	21.99
T-9207451 6.5' 10p DIN cbl; FT950/other amp	36.99
YH-77STA Open-air type stereo headphones	59.99
FT-450AT Compact HF/6m Xcvr/IF-DSP/tuner	Call/Web
(BET) Yae Tune Control for FT-450 series ...	44.99
CT-118 Control cable; FT-450 to Quadra	39.99
FP-1023 23A switching ps w/fan, 25A surge ...	169.99
FP-1030A 25A ps, 30A surge w/meters	269.99
ATAS-120A HF/6/2/430 motorized mob ant	299.99
ATBK-100 Antenna base kit; use w/base mt	89.99
FC-40 Automatic wire antenna tuner	299.99
MD-100A8X Desk mic w/tone control	139.99
MD-200A8X Deluxe high fidelity desk mic ..	379.99
MHG-1 Carrying handle	15.99

Yaesu - continued

AES Price

MMB-90	Mobile mounting bracket	39.99
T-9023725	Extra DC cable	21.99
T-9207451	6.5' 10p DIN cbl; FT450/other amp	36.99
YH-77STA	Open-air type stereo headphones	59.99
FT-897D	HF/6m/2m/430 portable Xcvr/TCXO	Call/Web
(BET) Yae Tune Control	for FT-897 series	44.99
(W4R) OBP-STD	Speech compressor for hand mic	69.99
(W4R) OPF-Y-CW-300	300Hz Collins CW filter	119.99
(W4R) OPF-CW	500Hz Collins CW filter	114.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	134.99
FP-30	Internal power supply	219.99
ADMS-4BU	Programming software/USB cable	39.99
ATAS-120A	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	89.99
ATAS-25	40/20/15/10/6/2/430 7.2' port ant	229.99
CT-39A	Packet cable	11.99
CT-62	CAT interface cable	36.99
EDC-20	Extra DC cable	18.99
FC-30	Antenna tuner; bolts to FT-897	199.99
FC-40	Automatic wire antenna tuner	299.99
FNB-78	4.5ah NiMH batt (will accept 2)	119.99
CD-24	4-hr 12vdc charge adapter; FNB-78	119.99
PA-26B	110vac charger for CD-24	89.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	379.99
MH-36E8J	TTP mic	59.99
MH-59A8J	Remote control TTP mic	79.99
MLS-100	Mobile speaker	49.99
MMB-80	Mobile mounting bracket	39.99
T-9023225	Extra DC cable	26.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
YH-77STA	Open-air type stereo headphones	59.99
FT-857D	Mini HF/6m/2m/430 Xcvr/DSP	Call/Web
FREE YSK-857 with FT-857D!		
(BET) Yae Tune Control	for FT-857 series	44.99
(W4R) OBP-STD	Speech compressor for hand mic	69.99
(W4R) OPF-Y-CW-300	300Hz Collins CW filter	119.99
(W4R) OPF-CW	500Hz Collins CW filter	114.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	134.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
ADMS-4BU	Programming software/USB cable	39.99
ATAS-120A	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	89.99
ATAS-25	40/20/15/10/6/2/430 7.2' port ant	229.99
CT-39A	Packet cable	11.99
CT-58	Band data cable; Yaesu amplifier	34.99
CT-62	CAT interface cable	36.99
EDC-20	Extra DC cable	18.99
FC-30	Antenna tuner	199.99
FC-40	Automatic wire antenna tuner	299.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	379.99
MH-36E8J	TTP mic	59.99
MH-59A8J	Remote control TTP mic	79.99
MLS-100	Mobile speaker	49.99
T-9023225	Extra DC cable	26.99
TCXO-9	TCXO unit, 0.5 ppm	99.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
YH-77STA	Open-air type stereo headphones	59.99
YSK-857	Separation kit	69.99
FT-817ND	5w HF/6/2/430 Xcvr/FNB85/NC72B	Call/Web
(W4R) OBF-817/ND-DIY	CW & SSB Collins filts	249.99
(W4R) OBP-STD	Speech compressor for hand mic	69.99
(W4R) OPF-Y-CW-300	300Hz Collins CW filter	119.99
(W4R) OPF-CW	500Hz Collins CW filter	114.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	134.99
ADMS-4AU	Programming software/USB cable	39.99

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AES Price

ATAS-25	40/20/15/10/6/2/430 7.2' port ant	229.99
CSC-83	Soft case w/side pocket for FT-817	29.99
CT-39A	Packet cable	11.99
CT-62	CAT interface cable	36.99
EDC-6	Extra DC cord; plug & wire only	8.99
FNB-85	9.6v 1400mah NiMH battery	59.99
MH-36E8J	TTP mic	59.99
MLS-100	Mobile speaker	49.99
NC-72B	Extra nicad wall charger	24.99
TCXO-9	TCXO unit, 0.5 ppm	99.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
ATU-450	Internal coax auto ant tuner; FT-450	129.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
SP-8	External speaker w/filters; Mk V/Field	169.99
T-9018320	DC cable; FT-840/847/Field	29.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YA-30	1.8-30 MHz broadband dipole ant	249.99
YF-110SN	2KHz 3rd IF SSB filts; Mk V/Field	99.99
YF-116A	6 KHz AM filter for FT-920	99.99
YH-77STA	Open-air type stereo headphones	59.99
Quadra System	WAP1000 HF+6m amp/ps/tuner	Call/Web
VR-500 Pack	HH Rcvr w/FNB-79/NC-60B D	Call/Web
ADMS-3	Programming software/USB cable	39.99
CSC-72	Soft carrying case for VR-500	19.99
EDC-5B	DC adapter w/noise filter	26.99
EDC-6	DC adapter; plug & wire only	8.99
FNB-59	Nicad battery for VR-500	2.99
FNB-79	Nicad battery for VR-500	9.99
NC-60B	Wall charger	14.99
VR-5000	1M-2.6G base rcvr AM/FM/SSB/cell blkd	Call/Web
DSP-1	DSP unit	119.99
DVS-4	Digital voice recorder	49.99
CA-34	Charger sleeve; NC-82/VR-120D	69.99
CSC-76	Soft carrying case for VR-120/D	2.99
EDC-15	DC adapter for VR-120D	9.99
FTM-10R	50w 2m/40w 440 FM Xcvr/int mic	Call/Web
FREE MH-68B6J with FTM-10R!		
FTM-10SR	10w 2m/7w 440 FM Xcvr/int mic D	Call/Web
Bluetooth Kit	Kit w/BH-1/BU-1/CAB-1	149.99
CD-40	3 hour charger cradle for BH-1	24.99
NC-85B	Battery charger for CD-40	18.99
CT-M10	20' separation cable	29.99
CT-M11	External after-market headset cable	29.99
FEP-4	Earphone for other ear with BH-1	19.99
MEK-M10	Microphone jack	14.99
MH-68A6J	Waterproof DTMF hand mic	59.99
MH-68B6J	Waterproof 3-key hand mic	39.99
MLS-200-M10	Waterproof external speaker	39.99
MMB-M10	Multi-angle stand bracket	29.99
MMB-M11	Multi-angle handle bar bracket	29.99
YHA-M10	2m/440 0/3db 19.7" antenna	39.99
AMK-1	License plate bracket for YHA-M10	19.99
COX-2MM	6.6' coax cable for YHA-M10	29.99
FTM-350R	50w 2m/440/1w 220 FM Xcvr	Call/Web
ADMS-350	Programming software/USB cable	39.99
BTK-4	Bluetooth kit; BH1A/BU1/CD40/NC85B	189.99
BU-1	Bluetooth radio adapter	79.99
CAB-1	Charger sleeve	10.99
CD-40	3 hour charger cradle for BH-1	24.99
NC-85B	Battery charger for CD-40	18.99
CT-132	20' separation cable	31.99
CT-133	GPS extension cable for FGPS-2	69.99
CT-135	Clone cable	39.99
CT-136	GPS antenna adapter for FGPS-2	32.99
CT-140	Packet cable; DIN8 to Din6+Dusb9	49.99
CT-141	Packet cable; DIN8 to Din6	29.99
CT-142	Packet cable; DIN8 to Dusb9	49.99
FEP-4	Earphone for other ear	19.99
FGPS-1	Internal GPS unit	79.99

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AES Price

FGPS-2	External GPS unit	79.99
FPR-1	Monitor unit	69.99
FVS-2	Voice guide unit	35.99
MLS-200-M10	Waterproof external speaker	39.99
MMB-60	Quick release mobile mount	39.99
FT-7900R	50w 2m/45w 440 FM Xcvr	Call/Web
FREE YSK-7800 with FT-7900R!		
ADMS-7900	Programming software/USB cable	39.99
CT-39A	Packet cable	11.99
MLS-100	Mobile speaker	49.99
MMB-60	Quick release mobile mount	39.99
T-9021715	Extra DC cable	12.99
YSK-7800	Remote separation kit	29.99
FT-8800R	50w 2m/35w 440 FM Xcvr	Call/Web
FREE YSK-8900 with FT-8800R!		
ADMS-2I	Programming software/USB cable	39.99
CT-39A	Packet cable	11.99
MLS-100	Mobile speaker	49.99
MMB-60	Quick release mobile mount	39.99
T-9021810	Extra DC cable	12.99
YSK-8900	Remote separation kit	29.99
FT-8900R	50w 10m/6m/2m/35w 440 FM Xcvr	Call/Web
FREE YSK-8900 with FT-8900R!		
ADMS-2H	Programming software/USB cable	39.99
CT-39A	Packet cable	11.99
MLS-100	Mobile speaker	49.99
MMB-60	Quick release mobile mount	39.99
T-9021810	Extra DC cable	12.99
YSK-8900	Remote separation kit	29.99
ADMS-2E	Prog soft/USB cable; FT-90R/2600M	39.99
ADMS-2F	Prog soft/USB cable; FT-1500M	39.99
ADMS-2J	Prog soft/USB cable; FT-2800M	39.99
ADMS-2K	Prog soft/USB cable; FT-7800R	39.99
ADMS-1802	Prog soft/USB cable; FT-1802M	39.99
S-8101436	Extra DC cable for FT-2800M	7.99
FT-1900R	55w 2m FM Xcvr	Call/Web
ADMS-1900	Programming software/USB cable	39.99
MLS-100	Mobile speaker	49.99
T-9021715	Extra DC cable	12.99
FT-2900R	75w 2m FM Xcvr	Call/Web
ADMS-2900	Programming software/USB cable	39.99
MLS-100	Mobile speaker	49.99
S-8002051/RA-1119800	Extra mobile bracket	4.99
T-9021015	Extra DC cable for FT-2900R	19.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
HRI-100	WIRES II interface box	169.99
LF-1	Mobile 13A DC noise filter	29.99
MLS-100	Mobile speaker	49.99
VXR-7000VA/Vertex	50w 2m FM AC/DC rpt	1299.99
VX VPL-1	Repeater programming cables	87.99
Repeaters require service dept set-up; \$45 minimum		
ADMS-1F	Prog software/USB cable; VX-150	39.99
ADMS-1H	Prog software/USB cable; VX-2R	39.99
ADMS-VX170	Prog soft/USB cable; VX-170	39.99
ADMS-VX177	Prog soft/USB cable; VX-177	39.99
FBA-17	AA battery holder; FT-23/411/470	19.99
FBA-20	Battery holder for VX-1R	19.99
FBA-21	6-AA battery holder; FT-50RD	29.99
NC-60B	Wall charger for FT-10/50	14.99
Q-3000166	Replacement duck ant for VX-5R	29.99
FT-60R	5w 2m/440 FM HT	Call/Web
ADMS-1J	Programming software/USB cable	39.99
CN-3	BNC to SMA adapter	11.99
CT-27A	Cloning cable	14.99
CT-44	2-pin spkr/mic adapter	14.99
EDC-5B	DC adapter w/noise filter	26.99
EDC-6	DC cord; plug & wire only	8.99
FBA-25	6 AA cell battery case	20.99
FNB-83	7.2v 1400mah NiMH battery	35.99
MH-34B4B	Speaker/mic	38.99
MH-37A4B	Earpiece/microphone	39.99
NC-88B	Extra wall charger	24.99

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AES Price

VAC-370 Rapid charger	79.99
VC-25 VOX headset	69.99
FT-250R 5w 2m FM HT	Call/Web
ADMS-250 Programming software/USB cable	39.99
CN-3 BNC to SMA adapter	11.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
CT-53 Packet cable	9.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	35.99
LCC-150/TT Leather case	29.99
LCC-150S/TT Leather case w/swivel	34.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99
NC-72B Extra wall charger for VX-150	24.99
VAC-370 Rapid charger	79.99
VC-25 VOX headset	69.99
FT-270R 5w 2m FM HT	Call/Web
FT-277R 5w 440 FM HT	Call/Web
ADMS-270 Prog soft/USB cable; FT-270R	39.99
ADMS-277 Prog soft/USB cable; FT-277R	39.99
CD-26 Charger cradle	30.99
CN-3 BNC to SMA adapter	11.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-25 6 AA cell battery case	20.99
FNB-83 7.2v 1400mah NiMH battery	35.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic	49.99
NC-88B Extra wall charger	24.99
VAC-370 Rapid charger	79.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-3R 1.5w 2m/1w 440 submini HT/lith ion	Call/Web
ADMS-VX3 Programming software/USB cable	39.99
CN-3 BNC to SMA adapter	11.99
CSC-92 Soft carrying case	15.99
CT-27A Cloning cable	14.99
CT-44 2-pin spkr/mic adapter	14.99
EDC-21 DC adapter	39.99
FBA-37 3 AA cell battery case	20.99
FNB-82LI Extra 3.7v 1000mah lith ion batt	38.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99
VC-25 VOX headset	69.99
VX-6R 5w 2m/440/1.5w 220 FM HT	Call/Web
ADMS-VX6 Programming software/USB cable	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CN-3 BNC to SMA adapter	11.99
CSC-91 Soft carrying case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1500mah lith ion batt	79.99
MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic	49.99
NC-72B Extra wall charger	24.99
SU-1 Altitude/barometric pressure sensor	34.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	Call/Web
ADMS-1G Programming software/USB cable	39.99
CD-15A Charger stand (use with NC-72B)	34.99
CN-3 BNC to SMA adapter	11.99
CSC-88 Soft carrying case	15.99
CT-91 Microphone adapter	12.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-23 2 AA cell battery case	29.99
FNB-80LI Extra 7.4v 1500mah lith ion batt	79.99

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AES Price

MH-57A4B Speaker/mic	30.99
MH-73A4B Submersible speaker/mic	49.99
NC-72B Extra wall charger	24.99
Q-3000185 Replacement duck ant	29.99
SU-1 Altitude/barometric pressure sensor	34.99
VC-24 VOX headset	79.99
VC-27 Earpiece/microphone	34.99
VX-8R 5w 6m/2m/440/1.5w 220 FM HT	Call/Web
VX-8DR 6m/2m/220/440 HT/enhanced APRS	Call/Web
ADMS-VX8 Programming software/USB cable	69.99
BTk-4 Bluetooth kit;BH1A/BU1/CD40/NC85B	189.99
BU-1 Bluetooth radio adapter	79.99
CD-40 3 hour charger cradle for BH-1	24.99
NC-85B Battery charger for CD-40	18.99
CD-41 Rapid charger cradle	39.99
CN-3 BNC to SMA adapter	11.99
CSC-93 Soft carrying case	15.99
CT-131 Microphone adapter	32.99
CT-134 Cloning cable	39.99
CT-136 GPS antenna adapter for FGPS-2	32.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-39 3 AA cell battery case	29.99
FEP-4 Earphone for other ear	19.99
FGPS-2 External GPS unit	79.99
FNB-101LI 7.4v 1100mah lith ion battery	59.99
FNB-102LI 7.4v 1800mah lith ion batt; GPS use	79.99
MH-74A7A Waterproof speaker/mic	49.99
Q-3000185 Replacement duck ant	29.99
VX-8GR 5w 2/440 HT w/GPS	Call/Web
ADMS-VX8GR Programming software/USB cable	39.99
CD-41 Rapid charger cradle	39.99
CN-3 BNC to SMA adapter	11.99
CSC-95 Soft carrying case	15.99
CT-44 2-pin spkr/mic adapter	14.99
CT-143 PC connection cable	48.99
CT-144 Cloning cable	18.99
EDC-5B DC adapter w/noise filter	26.99
EDC-6 DC cord; plug & wire only	8.99
FBA-39 3 AA cell battery case	29.99
FNB-101LI 7.4v 1100mah lith ion battery	59.99
FNB-102LI 7.4v 1800mah lith ion battery	79.99
MH-34B4B Speaker/mic	38.99
MH-37A4B Earpiece/microphone	39.99

ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire	Call/Web
G-550 12 sq ft elevation rotor/6-wire	Call/Web
G-800SA Med/hvy duty 450 degree 17sq ft/4-wire	Call/Web
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	Call/Web
G-1000DXA HD 450 degree 23sq ft/presets/5-wire	Call/Web
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	Call/Web
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor/2x6-wire	Call/Web
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800	49.99
GL-33 Mast adjustment plate	18.99
GS-050 50mm thrust bearing; mast 1 1/2"-2"	34.99
GS-065 65mm thrust bearing; mast 1 1/2"-2 1/2"	54.99
GS-232B Computer interface; DXA rotors	589.99
C-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	89.99
Sep Kit Separation kit for G5500	29.99

See JSC or Belden for rotor cable

CLOSE-OUTS

ALI DJ-X3T 1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	\$139.99
ANX FG-1440/FM-2 2m 92" fg unity N base/mt	69.99
ANX FG-4403/FM-2 440-450 44" fg 3db N base/mt	69.99
CMT CA-ABC23 2m 7.8 db 13' 4" base/rptr ant	99.99
CMT CMX-1 1.8-60MHz 2kw rem SWR/pwr meter	149.99
DCI 145-2H 2m 144-146 200w bandpass filter	169.99
DCI 146-4H 2m 144-148 200w bandpass filter	169.99
DCI 435-10C 430-440 200w N bandpass filter	189.99
DCI 445-10C 440-450 200w N bandpass filter	189.99

Close-Outs - continued

AES Price

DCI 146/444-DB 144-148/438-450 200w bp filt	239.99
DIA HF-50CX 6m 3.5db 71" mobile antenna	69.99
DIA X-500HNA HD 2m/440 8.3/11.7db 17.8' N ant	289.99
GAR GPS-18USB Dlx GPS sensor; laptop/USB/mag/soft	69.99
GRE PSR-300 Triple trunking handheld scanner	199.99
HEI HCL-ic Classic 1930s desk mic/studio el; lcom	99.99
HEI HM-4 Handi-Mic hand mic w/Hc-4	79.99
HEI HM-5 Handi-Mic hand mic w/Hc-5	85.99
HEI HM-10-Dual Mic w/Hc-4 & Hc-5 elements	128.99
HEI HQP Quiet Phone Noise cancelling headphones	79.99
ICO AH-7000 25-1300 MHz discone/50' coax	169.99
ICO FL-132 500 Hz main Rcvr CW filter; 910H	109.99
ICO FL-133 500 Hz sub band Rcvr CW filter; 910H	109.99
ICO HS-51 Headset w/VOX for IC-V8	69.99
ICO IC-703 Plus 10w mni HF+6m Xcvr/tnr/DSP	Call/Web
ICO IC-706 Mk II-G Mni HF Xcvr/6m/2m/440/DSP	Call/Web
ICO IC-T90A 5w 6m/2m/440 FM HT/lith ion	Call/Web
ICO OPC-581 11.5' separation cable	69.99
ICO OPC-587 16' separation cable	89.99
ICO OPC-598 23' extension cable; AT-180	59.99
ICO PCR-2500-25 Advanced PC ctl Rcvr/cell blkd	Call/Web
Bon CS4.5 included with PCR-2500-25 purchase until gone!	
ICO RMK-706 Package; MB-62/MB-63/OPC-581	84.99
ICO RX-7-05 Handheld receiver/cell blkd	Call/Web
ICO UX-910 10w 1.2GHz module; IC-910H	569.99
KEN SO-2 TCXO unit; TS-570D/S	169.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX	159.99
KEN YK-88C-1 500 Hz CW filter; TS-570D/S	119.99
KEN YK-88CN-1 270 Hz CW filter; TS-570D/S	109.99
KEN YK-88SN-1 1.8 KHz SSB filter; TS-570D/S	139.99
LDG DM-7800 Dual 4.5" meters for IC-7800	134.99
LDG DTS-6 6-pos HF/6m 1500/250w switch	99.99
MFJ 8621X2 5w APRS ready 2m data radio/144.39	149.99
OUT OB-M 75/40/20/17/10m/HF marine 300w PEP 6'	269.99
PLY CS112-50 50' 1 1/2" copper strap	89.99
PLY CS112-100 100' 1 1/2" copper strap	119.99
PLY CS3-25 25' 3" copper strap	89.99
PLY CS3-50 50' 3" copper strap	129.99
POW SS-30 25A switch ps, 30A surge/Pwrpoles	99.99
SAN ATS-606AP AM/FM/shortwave port Rcvr	99.99
SAN ATS-909 AM/FM/shortwave portable Rcvr	199.99
FREE DT-300VW FM/WX Rcvr w/ATS-909! limited time!	
SAN WR-1 AM/FM wooden cabinet receiver	89.99
TAL TS-062-802 TalkSafe main unit; HTs/FT817	149.99
UNI Oceanus-DSC 25w 90 ch VHF marine Xcvr	119.99
WES RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45	139.99
YAE ATU-450 Internal coax auto tuner; FT-450	129.99
YAE FTM-10SR 10w 2m/7w 440 FM Xcvr/int mic	Call/Web
YAE SP-8 External speaker w/filters; Mk V/Field	169.99
YAE VR-500 Pack HH Rcvr/FNB-79/NC-60B	Call/Web
YAE VX-8R 5w 6m/2m/440/1.5w 220 FM HT	Call/Web
YAE YF-110SN 2KHz 3rd IF SSB filt; Mk V/Field	99.99
YAE YF-116A 6 KHz AM filter for FT-920	99.99

**Checkout our Open Carton
and Used Equipment we
have for sale online at:**

www.AESHAM.com

Used Gear:

- Fully Service Tested
- 10 Day Trial (pay only shipping charges)
- 30 Day Guarantee
- Full Trade-in Credit within 90 Days on Higher Priced New Equipment

Open Carton:

- Fully Service Tested New Demonstrator or Display Equipment
- Repacked in Original Cartons
- Manufacturer's Warranty

**6M & 10M
MOBILES**

DR-06T

ALINCO
AMATEUR RADIO'S VALUE LEADER™
**VHF & UHF
MOBILES**

DR-135T

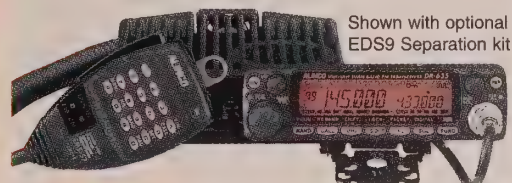
Common Features: 100 alphanumeric memory channels, VFO/Memory/Program scan with Busy/Timed settings and Tone scan. Tone squelch (Encode/Decode tone separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones. Direct frequency input and control of major functions via the backlit microphone keypad. Time-out-timer; Auto-power-off; Busy-channel lockout; Theft alarm; Cloning cable included. Dim: 5.9" w x 1.6" h x 6.8" d; 2.2 lbs.

DR-06T 6M FM Transceiver – Covers 50 to 53.995 MHz. Power: 50W (High), 20W (Mid), 5W (Low). With the optional EJ-41U TNC board, the DR-06T can be instantly switched from voice to 1200/9600bps packet. Ignition key on/off feature (with optional cable). 13.8VDC @ 11A. **\$279.99**

DR-03T 10M FM Transceiver – Looks like the DR-06T. Covers 28 to 29.695 MHz. Power: 10W (High), 5W (Mid), 1-4W (Low). 13.8VDC @ 3A. **\$279.99**

Available Accessories for DR-06T Only:

EDC37 Key ON/OFF cable, EDC43 Key ON/OFF cable for cigar socket, EJ41U TNC board, EJ47U Digital Voice modem

Shown with optional
EDS9 Separation kit**DR-635T Twin band Mobile Transceiver**

TX: 144-147.995 and 430-449.995 MHz; RX: 108-173.995 and 335-480 MHz includes VHF AM Air Band and FM (87.5-108 MHz), 200 alpha memories. (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band RX (V/V, U/U, V/U & U/V) with cross-band repeat. Three colors to choose from LCD shows status icons and alpha tags. CTCSS & DCS en/decode, 4 tone bursts. Auto power off, time out timer, tone burst, scan, lock-out, dimmer, VFO auto program, theft alarm, narrow FM, voltage display and remotable head. Rear cooling fan. Advanced Digital Mode (10F3) with speech compression with the optional EJ-47U board. Includes DTMF hand mic, DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) cable and anti-theft sticker. Dim: 5.5" w x 1.6" h x 6.8" d; 2.2 lbs. **\$399.99**

Available Accessories:

EDS9 Separation kit, EJ47U Digital board, EJ50U TNC unit, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows prog. software

DR-135TMKIII 2M Mobile Transceiver – Covers 144-148 MHz transmit with 118-135.995 MHz (AM aircraft) & 136-173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF mic; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC available; 13.8V DC @ 11A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.3 lbs. **\$189.99**

DR-135TPMKIII – Same as 135TMKIII with addition of the TNC for 1200/9600bps packet and APRS operation. **\$299.99**

DR-235TMKIII – 222-224.995 MHz TX & 216-279.995 MHz RX; 25/10/5W out. **\$279.99**

DR-435TMKIII – 430-450 MHz TX & 350-511.995 MHz RX; 35/10/5W output. **\$289.99**

Available Accessories:

EDC37 DC cable, EDC43 Cigarette lighter cable, EJ41U 1200/9600 TNC (TMKIII's only), EJ47U Digital board, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software

ALINCO
ACCESSORIES


DM-330MVT Switching Power Supply (left) Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15 VDC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals. Dim: 6.8" w x 2.6" h x 6.5" d, 4.4 lbs. **\$199.99**

DM-340MVT Conventional Power Supply (right) Provides 30A continuous, 35A maximum at 50% duty cycle with variable voltage (0-25 VDC). Forced-air cooled; Separate Volt and Amp meters; Large 16mm main terminals plus 2 pairs of auxiliary snap-in terminals, cigar socket and fuse holder on the front panel. Dim: 9.25" w x 6" h x 9" d, 20.7 lbs. **\$219.99**

LOW POWER 2M HANDHELD

DJ-S11T Miniature 2M FM HT – Covers 144-148 MHz transmit; 340mW output; 20 multi-function regular memories and 1 call memory; CTCSS tone encoder and decoder; Illuminated display; Pivoting antenna. Uses 3 "AA" alkaline or NiCad batteries; Comes with wrist strap, antenna and belt clip. Dim: 2.2" w x 3.9" h x 1" d; 6.5 oz. **\$89.99**

Available Accessories:

EME12 Headset/earphone/mic w/VOX, EME13 Headset/earbud/mic w/VOX, EME15 Earphone/mic w/VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic w/volume control, ESC27 Soft case

**2M HANDHELD**

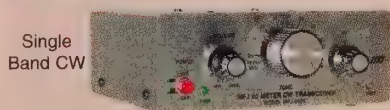
DJ-175T 2M FM Handheld – Low cost, but sets new standards in features, convenience and ease of operation. Enjoy 136 to 173.995 MHz receive coverage with 200 memories and scanning. There's a backlit keypad and alphanumeric display for simple operation and memory management. Ergonomically designed to fit the palm of your hand. A 5-Watt output battery is standard. You're ready for virtually any selective calling situation or gaining access to repeaters with 39-



tone CTCSS, 104 DCS, Tone-bursts and DTMF encoding, all included at no extra cost. Wire cloning capability. Comes with: flexible SMA antenna, EBP-72 NiMH battery pack, EDC-146 wall adapter and EDC-165 NiMH drop-in trickle charge stand. Dim: 2.28" w x 4.23" h x 1.43" d; 8.7 oz. **\$99.99**

Available Accessories:

EBP71 Li-ion Battery Pack (7.4V 1200 mAh), EBP72 Ni-MH Battery Pack (7.2V 700 mAh), EDC164T Li-Ion Drop-In Trickle Charger, EME12 Headset with PTT/VOX/earphone, EME13 Headset with PTT/VOX/earbud, EME15 Tie pin VOX mic/earphone, EME6 Earphone, EMS47 Speaker Mic with Volume Control, ERW4 PC Serial RS232C Cable, ERW7 PC USB Cable, ESC49 Soft case

MFJ LOW POWER TRANSCEIVERS**SINGLE BAND CW****SINGLE BAND SSB**Single
Band CWSingle
Band SSB

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever you go. Hot superhet receiver with super-quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RIT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 6.5" w x 2.5" h x 6" d; 2 lbs.

Four different models:

9015 – 15M, 5W **\$199.99** **9030** – 30M, 5W **\$199.99**
9020 – 20M, 5W **\$199.99** **9040** – 40M, 5W **\$199.99**

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4-6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 6.5" w x 2.5" h x 6" d; 2 lbs.

Six different models:

9402X 2M, 7W **\$269.99** **9420X** 20M, 20W.. **\$259.99**
9406X 6M, 10W.. **\$269.99** **9440X** 40M, 12W.. **\$249.99**
9410X 10M, 20W .. **\$269.99** **9475X** 75M, 12W. **\$249.99**

See Page 16 in the Price Guide under MFJ for available accessories for these models

SINGLE BAND HANDHELDS

DJ-V17T 5W 2M FM Handheld – Covers 144-148 MHz transmit with 130-173.995 Mhz receive and 200 memories. Ruggedly built to IPX7 standards (can be submerged in 3 ft. depth of water for up to 30 minutes). 5W output; back-lit alphanumeric display and direct keypad frequency entry; 39 Tone CTCSS Squelch; 104 Tone Digital Code Squelch (DCS); 4 Tone Bursts; 9 DTMF Autodial Memories; Scanning; Time-out Timer.

Tuning steps: 5, 10, 12.5, 15, 20, 25 and 30 kHz. A 500mW audio amp provides abundant audio. Comes with AC charger adapter, Ni-MH battery and SMA flexible antenna, belt clip and hand strap.

Dim: 2.28" w x 4.33" h x 1.43" d; 9.9 oz. **\$149.99**

DJ-V27T 5W 220 MHz FM Handheld – Similar to the DJ-V17T above, but covers 222-224.995 MHz TX with 216-249.995 MHz RX. Power: 5W. **\$179.99**

DJ-V47T 4.5W 440 MHz FM Handheld – Similar to the DJ-V17T above, but covers 430-449.995 MHz TX with 410-470 MHz RX. Power: 4.5W. **\$169.99**

Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, EBP64 7.4V 1600mAh Li-Ion battery, EBP65 7.2V 700mAh NiMH battery, EBP66 7.2V 2000mAh NiMH battery, EDC144 Rapid charger, EDC36 Cigarette lighter cable with filter, EDC37 DC cable, EDC43 Cigarette lighter cable, EDH34 Dry cell case, EDS10 Mic/speaker cable, EDS11 Clone cable, EME12* Headset/earphone/mic with VOX, EME13* Headset/earbud/mic with VOX, EME15* Earphone/mic with VOX, EME20* Tie-pin mic/earphone, EME6* Earphone, EMS47 Speaker mic with volume control, EMS62 Speaker/mic, ERW4* PC cable, ERW7* USB PC cable, ESC41 Soft case

* requires EDS10

DJ-S45T 440MHz FM HT

Rugged polycarbonate design is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz. 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW with 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 or ERW-7 cable). Includes belt clip, handstrap, AA battery case and flexible SMA antenna.

Dim: 2.24" w x 3.86" h x 1.17" d; 5.7 oz. ... **\$139.99**

Available Accessories:

EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC Cable, ERW7 USB PC cable, ESC40 Soft case

ALINCO
AMATEUR RADIO'S VALUE LEADER™

DUAL BAND HANDHELDS

DJ-596T MK II 2M/440 MHz Dual Band FM HT Covers 144-148/420-450 MHz transmit and 136-174/400-512 MHz receive. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; CTCSS/DCS encode and decode; Three scan modes; Illuminated keys and display; 100 alpha memories and 9 autodial memories; Operates on 6-16VDC, battery charges while on external source.

Dim: 2.2" w x 4.9" h x 1.6" d; 11oz. **\$239.99**

Available Accessories:

EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500mA 5W NiMH battery, EBP56N 7.4V 1000mAh lith-ion battery (do not charge using radio - must use EDC111), EDC111 Charger for EBP56N, EDC133 NiMH quick charger, EDC36 Cigarette lighter cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger for NiCads, EDC93 Wall charger with power supply, EDH30 Dry cell battery case, EJ47U Digital board, EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME25 Curled cord earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC cable, ERW7 USB PC cable, ESC36 Soft case for EBP48N, SW596 Windows programming software

DJ-V5TH 5W 2M/440 MHz FM HT

Standard high-power 700 mAh NiCad battery pack – up to 5W output; 3 output settings; Expandable receive range 76-999 MHz (cellular blocked); Split-band operation capability; Eight different tuning steps; Alpha-numeric display; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 scan modes and 5 programmable scan banks; Auto-dial memories; SMA

antenna connector; Wire cloning capable.

Dim: 2.25" w x 4.5" h x 1.75" d; 13 oz. **\$239.99**

Available Accessories:

EBP46N 9.6V 600mAh 5W NiCad battery, EDC36 Cigarette power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette power cable, EDC93 Wall charger, EDH29 Dry cell battery case, EME12 Headset/earphone/mic with VOX, EME13 Headset/ear bud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME25 Curled cord earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC Serial cable, ERW7 USB PC cable



DJ-C7T Credit Card Size 2M/440 MHz FM Dual Band Micro Handheld – TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast 87.5-107.995 MHz, AM aircraft 108-173.995 MHz and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source. 200 memory channels; 5 pairs of program scan band; Priority watch; Split-operation; CTCSS

encode and decode; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning.

Dim: 2.3" w x 3.8" h x 0.57" d; 3.6 oz. **\$189.99**

Available Accessories:

EBP58N Lithium-ion battery, EDH32 Cigarette lighter cable, EME18 Earphone, EME24 Earphone/microphone, EME25 Curl cord earphone, EMS60 Speaker/microphone, ERW4 PC cable, ERW7 USB PC cable, ESC38 Soft case

TRIBAND HANDHELD

DJ-G7T 2M/440/1.2 GHz FM

Handheld – The DJ-G7T brings full duplex operation across any two of the bands covered in this radio to offer a communications experience you have only dreamed about. It tunes 0.530-1299.995 MHz continuously (cellular blocked) with 1000 alpha memories and scanning. There's a backlit keypad and alphanumeric display for simple operation and memory management. It is ergonomically designed to fit the palm of your hand. 5W on 2M, 4.5W on 440 (5W @ 13.8 VDC) and 1W on 1.2 GHz output with the standard high-capacity Li-Ion 1200mAh battery. You're ready for virtually any selective calling situation or gaining access to repeaters with 39-tone CTCSS, 104 DCS, Tone-bursts and DTMF encoding, all included at no extra cost. Wire cloning capability. Comes with: flexible SMA antenna, EBP-73 Li-Ion battery pack, Drop-in trickle charger.

Dim: 2.36" w x 4.53" h x 1.18" d; 9.5 oz. **\$349.99**

Available Accessories:

EBP73 7.4V 1200mAh Lith-Ion battery, EDC36 Cigarette cable w/filter, EDC43 Cigarette cable with charger, EDH35 "4" AA Battery case, EDS10 Mic/speaker conversion cable, EDS11 Cloning cable, EMS47 Speaker mic w/volume control (EDS10 required), EMS62 Speaker mic, ERW4 PC Serial RS232C Cable, ERW7 PC USB Cable, ESC50 Soft case



EMS-47 Speaker Mic with Volume Control Speaker Mic with Volume Control for most current Alinco Handhelds. **\$39.99**

EDC-36 Car Cigarette Lighter Power Cord w/Filter – Supplies 12 VDC in the car for the Alinco DJ-V17T, DJ-V27T, DJ-V47T, DJ-596T MKII, DJ-V5TH & DJ-G7T handhelds. **\$29.99**

EME-6 3.5mm Mono Earphone – Standard 3.5mm Mono Sound Earphone. Can be used in thousands of audio items like radios, scanners, even MP3 players. **\$14.99**



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ICOM® HF BASE STATION

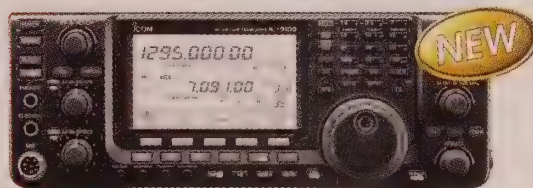


IC-718 HF All Mode Transceiver – Perfect for beginners or backup rig. Covers 160–10M except 60M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. Output power is 5–100W (2–40W AM); 101 memories (99 regular, 2 scan edges); UT-106 AF DSP module is included; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/Rf meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A. Dim: 9.4" w x 3.75" h x 9.4" d; 8.5 lb. ... **CALL/WEB**

Available Accessories:

BET 706TUNECONT Better RF tune control, AH2B Whip with mount, AH4 80–6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 1.9 kHz 455 kHz IF SSB filter, FL257 3.3 kHz 455 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC598 23' extension cable (AT180), OPC599 7+8-pin-13-pin adapter, PS125 25A switching supply, SM50 Dynamic desk mic, SP20 Speaker with audio filters, SP23 Speaker with audio filters, SP5 Mobile speaker, UT102 Voice synthesizer, NIF MMIC718 Nifty Mini Manual, W4R OBF703718DIY CW & SSB Collins Filters

ALL BAND ALL MODE BASE STATION



IC-9100 HF/6M/2M/440 MHz All Mode Transceiver With Optional 1.2 GHz and D-Star Operation – This radio could be the only one you need in the shack! Replaces IC-910H for Satellite operation and the IC-746Pro for HF/6M. Full 100W output on HF/6M/2M and 75W output on the 440 MHz band. The optional 1.2 GHz unit adds 1240–1300 MHz transmit with 10–1W output. Also available is an optional D-Star board that allows DV operation on 2M and 440 MHz bands (plus 1.2 GHz if 1.2 GHz unit is installed). AM, FM, SSB, RTTY, CW and DV (with optional D-Star unit) modes supported. The default 1st IF filter is 15 kHz but optional 6 kHz and 3 kHz roofing filters are available. Dual-conversion receiver with I/Q image-reject mixer; IF-DSP (32-bit operation and 24-bit AD/DA converter); Built-in Automatic Antenna Tuner for HF/6M; Rear-panel USB port.

This device has not been approved by the F.C.C. This device may not be sold or leased or offered for sale or lease until approval of the F.C.C. has been obtained.

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HIGH-END HF/6M BASE STATIONS

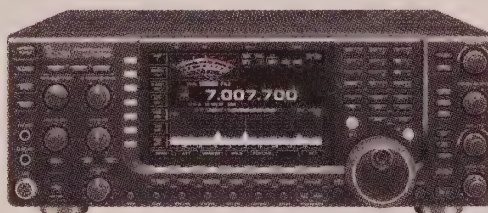


IC-7600 HF/50 MHz All Mode Transceiver – The latest DSP technologies developed for the IC-7800/7700 plus over 45 years of analog circuit expertise give the IC-7600 the performance advantage. Covers 0.03 – 60 MHz receive and HF plus 6M transmit. Output power for SSB, CW, FM, RTTY and PSK31 is 2–100W and for AM it is 1–30W. 101 memory channels made up of 99 regular and 2 scan edges. Two SO-239 antenna connectors with automatic antenna selector. Separate DSP units for transmitter/receiver and spectrum scope. Three built-in 1st IF (roofing) filters: 3, 6 and 15 kHz. The double conversion superheterodyne system and the image rejection mixer improve inband IMD. 5.8-inch WQVGA (400x240 pixel) ultra-wide viewing angle TFT display with long-life LED backlighting. High-resolution real-time scope using a dedicated DSP unit. Front and rear USB connectors allow keyboards, flash memory drives, and PCs to easily connect. Built-in PSK and RTTY operation with a USB keyboard - PC not required. Comes with DC power cable, spare fuses, CW key plug, HM-36 hand mic and carrying handle. Requires 13.8VDC @ 23A max. power supply.

Dim: 13.4" w x 4.5" h x 11" d; 22 lbs. ... **CALL/WEB**

Available Accessories:

CSS DIGDESKTOPSC CSS Digital Desktop Software with USB cable, AH2B Whip with mount, AH4 80–6M 120W auto wire antenna tuner, CT17 Level converter, PS126 Power supply, SM50 Dynamic desk mic, SP23 Speaker w/audio filters, NIF MMIC7600 Nifty Mini Manual



IC-7700 HF/50 MHz All Mode Transceiver Top-performance, closely related to the IC-7800. Designed to be the Ultimate Contest Transceiver, employing the latest technology for the competitive edge. Two independent IC-7800-type DSP units: one for the transmitter and receiver and one for the spectrum display. Uses a single HF receiver with I/Q second mixer, offering a +40dBm 3rd-order intercept point, ultra-wide dynamic range and selectable 15, 6 and 3 kHz roofing filters. Automatic tracking preselector and relay-switched front end for strong-signal HF performance and out-of-band interference rejection. Push-pull MOS-FET amplifiers work at 48VDC, providing 200W output at full duty cycle. Built-in switch-mode power supply. The 7 inch wide color TFT LCD, 800 x 480 display shows a multi-function spectrum scope and a simulated analog multi-function meter. VGA socket for external video monitor. A built-in RTTY/PSK31 modem provides a complete digimode terminal, requiring only an external keyboard. Rear-panel I/O connections and CI-V allow use of a second Icom transceiver. Digital voice recorder. DSP noise blanker. USB memory drive socket.

Dim: 16.7" w x 5.9" h x 17.1" d; 52.9 lbs. **CALL/WEB**

Available Accessories:

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, SM50 Dynamic desk mic, SP20 Speaker w/audio filters, SP23 Speaker w/audio filters, NIF MMIC7700 Nifty Mini Manual



IC-7800 HF/50 MHz Transceiver – The Icom flagship radio that is a fusion of 45 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. The ultimate in performance, function and quality without compromise. 160–10M & 6M TX, 0.03 – 60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RIT and ΔTX; Separate 50 MHz preamp and mixer; 5–200W (5–50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug.

Dim: 16.6" w x 5.9" h x 17.1" d; 55 lbs. ... **CALL/WEB**

Available Accessories

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, SM50 Dynamic desk mic, SP20 Speaker w/audio filters, SP23 Speaker w/audio filters

HF POWER AMPLIFIER



PW-1 HF/50 MHz Linear Amplifier – Covers 160 to 15M and 6 Meters. Power output with 100W drive is 1000W SSB/CW & RTTY when powered with 80 to 264V AC or 500W with 90–132V AC; 100% duty cycle, QSK. Features include: Automatic band change, Built-in all band automatic antenna tuner, Automatic AC voltage selector, current, voltage, temperature, high SWR and output power protection, Wide range ALC that adjusts to almost any rig. The control head is detachable and remoteable. Built-in power supply. Two exciter input connectors and 4 output connectors. Comes with controller separation cable, ACC cables, coax jumper with PL-259s. Dim: 14" w x 10.5" h x 14.5" d; 56 lbs. ... **CALL/WEB**



IC-706 MK II-G Compact HF/VHF/UHF All Mode Transceiver – Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; 13.8VDC @ 20A. Dim: 6.6" w x 2.3" h x 7.9" d; 5.5 lbs. **RMK-706 Included with purchase C/O CALL/WEB**

Available Accessories:

BET 706TUNECONT Better RF tune control, AH2B Whip with mount, AH4 80–6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR282 Stability crystal, CT17 Level converter, FL100 500 Hz 9 MHz IF CW filter, FL101 250 Hz 9 MHz IF CW filter, FL103 2.8 kHz 9 MHz IF SSB filter, FL223 1.9 kHz 9 MHz IF SSB filter, FL232 350 Hz 9 MHz IF CW/RTTY filter, HM154T TTP microphone, LC156 Back pack carrying case, MB120 Mounting base, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB72 Carrying handle, OPC025D DC cord, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable for AT180, OPC599 7+8-pin–13-pin adapter, OPC742 13-pin cable, PS125 25A switching power supply, RMK706 Remote mounting kit, SM50 Dynamic desk mic, SP10 Slim-line external speaker, UT102 Voice synthesizer, NIF MMIC706MKIIG Nifty mini manual, W4R OBPUNIV Speech compressor

IC-7000 Compact HF/VHF/UHF All Mode Transceiver – Covers HF/6M/2M/440 MHz with .03–199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8VDC @ 22A. Dim: 6.56" w x 2.59" h x 7.09" d; 5.1 lb. **RMK-7000 Included CALL/WEB**

Available Accessories:

BET 7000SCDRCONT Better RF screwdriver antenna controller, BET 7000TUNECONT Better RF tune control, AH2B 40–6M whip with mount (use tuner), AH4 80–6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CT17 Level converter, HM154T TTP Mic., LC156 Back pack carrying case, MB105 Remote head bracket, MB106 Carry handle, MB120 Mounting base, MB62 Main unit mounting bracket, OPC1443 11.5' remote cable, OPC1444 16' remote cable, OPC1457 DC cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable; AT180, OPC599 7+8-pin to 13-pin adapter, OPC742 13-Pin cable, PS126 Power supply, RMK7000 Remote mounting package (MB62/MB105/OPC1443), SM50 Dynamic desk mic, SP10 Slim-line external speaker, NIF MMIC7000 Nifty mini manual, RTS WCS7000 Programming software & USB cable

HF/6M PORTABLE BASE STATION



IC-7200 HF/50MHz Portable Transceiver Rugged design with tough construction against water intrusion for outdoor use. The latest IF DSP technology is employed in the IC-7200. While the IC-7200 is an entry-class transceiver, advanced digital features are comparable to higher class transceivers. Covers 0.03 - 60 MHz receive and HF plus 6M transmit. Provides 2-100W output on SSB, CW, RTTY and 1-40W on AM. Other features include: Easy-to-use controls; IF DSP filtering (51 passband widths); Digital IF filter, twin passband tuning (PBT), noise reduction, noise blanker and RF speech compressor. Manual notch filter; Keypad entry; Dual VFOs; Voice synthesizer; RIT; VOX; ±0.5ppm frequency stability; LCD backlight (hi/lo/off); CI-V interface; 201 memory channels, Built-in 20dB attenuator; Preamplifier; Dial lock; Auto TS function; 1 Hz step tuning; Band stacking register; Built-in voice synthesizer; Quick split; Front facing speaker; Quick set mode; Rear bumper protects the connectors on the rear panel while transporting; USB port for PC control. The IC-7200 is not waterproof, but front panel buttons & knobs are protected against water intrusion similar to other Icom Marine radios. Comes with hand microphone, DC power cable and spare fuses. Requires 13.8VDC @ 22A power supply. Dim: 9.5" w x 3.3" h x 11" d; 12.1 lbs. ... **CALL/WEB**

Available Accessories:

CSS DIGDESKTOPSC CSS Digital Desktop Software with USB cable, AH2B Mobile antenna, AH4 Auto antenna tuner, AT180 HF/6M Auto antenna tuner, CT17 CI-V Level converter, MB116 Front panel handles, MB117 Carry handle, MB118 Mobile mounting bracket, OPC1457 Extra DC cable, OPC598 23' extension cable for AT-180, OPC599 7+8 to 13 Pin cable adapter, PS126 Power supply, SM50 Dynamic desk mic, SP10 Slim-line external speaker, SP20 Speaker w/audio filters, SP23 Speaker w/audio filters

ICOM HF ACCESSORIES



SP-10 Slim-line External Speaker – Comes with a hinge bracket for multiple mounting options. 4 Ohms and 5W max output. 3.5mm mono. **\$76.99**

SP-20 Speaker w/Audio Filters – 5 inch speaker has 5W max. output. Two 3.5mm audio input jacks that you can switch between. One 1/4 in. front headphone jack. and four separate audio filters: HPF 1 (300 Hz), HPF 2 (600 Hz), LPF 1 (2400 Hz), LPF 2 (800 Hz). Speaker on-off switch. ... **\$259.99**

SP-23 Speaker w/Audio Filters – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. headphone jack; Metal construction; Tilt-stand. Dim: 5.75" w x 4.25" h x 11.2" d; 3.6 lbs. ... **\$219.99**

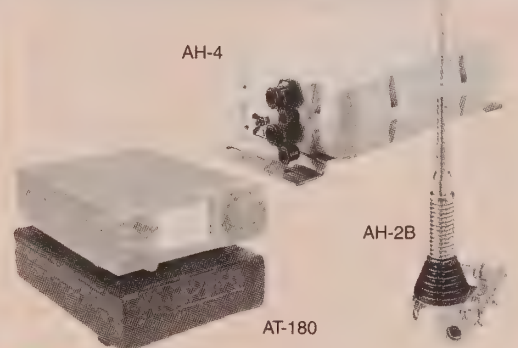


CT-17 CI-V Level Converter – Hook up your Icom CI-V compatible transceiver to your computer's RS-232C port. This gives you the ability with optional 3rd party software to manage memory channels and remotely control many different radios. Up to four transceivers can be connected at one time. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs. **\$149.99**

SM-50 Dynamic Desktop Microphone – Up-Down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin plug. Compatible with many 8-pin Icom Radios. Requires OPC-589 with IC-706 & IC-7000..... **\$279.99**

PS-125 Base Station Power Supply – 25 Amps of power for Icom radios with 6-pin molex connector. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs. **CALL/WEB**

PS-126 Base Station Power Supply – 25 Amps of power for Icom radios with 4-pin molex connector. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs. **CALL/WEB**



AH-4 Automatic Antenna Tuner – Covers 3.5 to 54 MHz using a 23+ ft. wire or 7 to 54 MHz with the optional AH-2B antenna whip. Rated at 120W PEP. Waterproof design for outdoor use. ... **CALL/WEB**

AH-2B Mobile Antenna Whip – Perfect for mobile operation with the AH-4 Tuner. Covers 7 to 54 MHz with the tuner. 8.2 ft. long. **\$399.99**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate..... **CALL/WEB**

For more information on these items see page 98

SINGLE BAND
MOBILES

IC-2200H 2M FM Transceiver with D-Star Capability – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Four power levels: 65, 25, 10 and 5W; Choice of FM/Narrow mode; 207 alpha memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCS encode/decode plus tone scan functions and “pocket beep”; 24 DTMF autodial memories; Squelch delay; NMEA GPS compatible (GPS not supplied). Optional UT-118 adds DV D-Star operation. Includes remote control mic, DC power cable, mobile mounting bracket, mic hanger and spare fuse.

Dim: 5.5" w x 1.6" h x 5.25" d; 2.75 lbs. **CALL/WEB**

Available Accessories:

CS2200H Windows™ software, MB28H Mobile bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Ext. Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, UT118 D-Star Digital unit, NIF QRIC2200H Nifty quick reference card, RTS WCS2200 RT Systems programming software & USB cable



IC-V8000 2M FM Transceiver – Big 75W power output. Selectable power output is 75/25/10/5W. Covers 144-148 transmit with 136-174 MHz receive. 207 alpha memory channels including one call and six scan edge channels; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Selectable Green or Amber display; Includes remote control microphone, DC power cable, mounting bracket, mic hanger and spare fuse.

Dim: 5.9" w x 2" h x 5.9" d; 2.22 lbs. **CALL/WEB**

Available Accessories:

CSV8000 Windows software, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, V8000MMB Mobile bracket, NIF QRICV8000 Nifty quick reference card, RTS WCSV8000 Programming software & USB cable

Please call/web for current prices & promotions.

ICOM

DUAL BAND
MOBILES

IC-208H 2M/440 Dualband Mobile – Covers 144-148 and 440-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks), 2-100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control microphone included.

Dim: 5.56" w x 1.56" h x 7.3" d; 2.7 lbs. **CALL/WEB**

Available Accessories:

CS208 Windows cloning software, MB120 Mounting base, MB28H Mobile bracket, MB58 Remote controller bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC601R 23' separation kit, SP10 Slim-line external speaker, NIF QRIC208H Nifty quick reference card, , RTS WCS208 RT Systems programming software & USB cable



IC-2820H 2M/440 Analog Dual Bander with D-Star and GPS Capability – Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. Power: 50/15/5W out on both bands. Built-in CTCSS/DCS Encode/Decode, PC compatibility. Removable front panel, selectable amber/green display. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. D-STAR upgradeable and DV (digital voice) with the optional UT-123. Packet ready (9600 BPS – 6-pin DIN). Includes the full-function backlit remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with separation cables.

Dim: 5.9" w x 1.65" h x 7.4" d; 3.3 lbs... **CALL/WEB**

Available Accessories:

CS2820 Windows cloning software, MB120 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' Mic extension cable, OPC441 16.4' Speaker ext. cable, OPC474 Radio to radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, OPC589 8-PIN mic. jack adapter cable, SP10 Slim-line external speaker, UT123 D-Star DV & GPS receiver, V8000MMB Mobile bracket, NIF MMIC2820H Nifty mini manual, RTS WCS2820 Programming software & USB cable

D-STAR READY
DUAL BAND
MOBILE

ID-880H FM & D-Star Ready 2M/440 Dual Bander – Can transmit and receive D-Star format digital voice and approximately 950 bps data communication simultaneously with analog FM mode still available. Your GPS position data is shown on the display and can be sent to other station with 3rd party GPS receiver (not included). The GPS A mode assists in D-PRS mode operation to send your position information to an APRS server. Has wide-band receive of 118-173.995, 230-549.995 & 810-999.995 (cell blocked) so you can listen to aviation, marine, weather channels and other utility communications. Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); 1052 memory channels with 8-character channel name; 16 channels DTMF memory (24-digit); Built-in CTCSS/DTCS tone encoder and decoder (FM mode only) with tone scan and pocket beep function; Data & 9600/1200bps packet jacks on the rear main unit; Large LCD display allows you to select green, yellow and amber as the backlighting. Detachable control head with separation cable; Control head has magnets on the rear panel, it allows the controller to attach to the main unit or other metal objects.

Dim: 5.9" w x 1.56" h x 7.84" d; 2.9 lbs. ... **CALL/WEB**

Available Accessories:

MB120 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, OPC441 16.4' speaker extension cable, OPC474 Radio to radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, NIF MMID880H Nifty mini manual, RTS WCSD880 RT Systems programming software & USB cable

1.2 GHZ D-STAR
MOBILE RADIO

ID-1 10W 1.2 GHz FM & D-Star Ready Mobile The D-Star system provides not only digital voice (DV mode) communication but also digital data transmission (DD mode). It can exchange various data files such as graphics, images, etc, at 128kbps. In DD mode, the ID-1 can transfer data directly with another ID-1 without the use of a repeater. This is useful for establishing a simple network where a D-Star repeater does not exist or D-Star services are not required. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes 100 alphanumeric memories; 10/1W selectable power output; In FM mode the ID-1 has CTCSS tone squelch and pocket beep functions for quiet stand-by; Full PC control via USB port and 10 BASE-T ethernet that is used for 128K data operation.

Dim: (main unit) 5.56" w x 1.56" h x 6.53" d; (control head) 5.9" w x 1.97" h x 1.94" d; 3 lbs. ... **CALL/WEB**

Available Accessories:

MB28H Mobile bracket, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, OPC441 16.4' Speaker extension cable, SP10 Slim-line ext. speaker



ICOM® SINGLE BAND HTs

IC-V80 2M FM HT

A modernized classic! Rich in analog features, Icom's latest handheld offers practical 2M operation and ruggedness, updated for today's ham radio enthusiasts. Passed the MIL-STD requirements and IP54 water resistance and dust protection standards. The BTL amplification increases the audio output by doubling the voltage delivered to the speaker. Covers 144-148 MHz transmit; 5.5/2.5/0.5W RF output at 7.2V DC; Receive range is 136 - 174 MHz with weather channel alert; 207 easy to recall alphanumeric memories including 6 scan edges and 1 call; Up to 5 characters can be used for labeling each memory; 16 DTMF memory channels are also available; Wide/Narrow channel spacing; CTCSS/DTCS Encode and Decode; Multiple scanning modes to choose from; Backlight display; Big 750 mW of audio output; Comes with wall charger, BP-264 NiMH battery pack and BNC antenna.

IC-V80 SPORT - Same but no wall charger and NiMH battery. Comes with BP-263 AA battery case. Dim: 2.1" w x 5.2" h x 1.4" d; 12.3 oz. ea. **CALL/WEB**

Available Accessories:

BC191 Desktop quick charger for BP264, BC193 Desktop quick charger for BP265, BP263 Battery case, BP264 7.2V 1400mAh NiMH battery, BP265 7.4V 1900mAh Lith-ion battery, CP17L Right angle cigarette cable for charger, CSV80 Cloning software, HM158L Rectangle speaker/mic/earphone jack/clip, HS94 Earpiece headset (OPC2004 required), OPC2004 Headset cable for HS94, OPC474 Radio clone cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, NIF QRICV80 Nifty quick reference card, RTS WCSV80 RT Systems programming software & USB cable



DUAL BAND HTs

IC-T70A 2M/440 MHz Dual-Band FM HT Like the new IC-V80 the IC-T70A also meets MIL-STD requirements, IP54 water resistance, dust protection standards as well as BTL amplification that doubles the audio output. Covers 144-148 and 430-450 MHz transmit; 5/2.5/0.5W RF output; Receive range is 136 - 174 and 400 - 479 MHz with weather channel alert; 302 easy to recall alphanumeric memories including 50 band edges and 2 call channels; Up to 5 characters can be used for labeling each memory; 16 DTMF memory channels are also available; Wide/Narrow channel spacing; CTCSS/DTCS Encode and Decode; Multiple scanning modes to choose from; Backlight display makes reading the display easy in the dark; Big 700 mW of audio output; PC programmable with optional CS-T70; Internal VOX for hands free operation when used with a compatible optional headset; Comes with wall charger, BP-264 NiMH battery pack, belt clip, hand strap & SMA antenna. Dim: 2.3" w x 4.4" h x 1.2" d; 13.4 oz. **CALL/WEB**

Available Accessories:

AD92SMA SMA - BNC adapter, BC191 Desktop quick charger for BP264, BC193 Desktop quick charger for BP265, BP263 AA Battery case, BP264 7.2V 1400mAh NiMH battery, BP265 7.4V 1900mAh Lith-ion battery, CP12L Right angle cigarette cable with filter, CP17L Cigarette cable for charger, CP19R Cigarette cable with filter, CST70 Cloning software, HM131 Speaker mic, HS94 Earpiece headset (OPC2006 required), LC174 Carrying case, OPC2006 Headset adapter cable, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478U PC USB cable, OPC515L DC cable for charger, NIF QRIC70A Nifty quick reference card, WCST70 RT Systems programming software & USB cable



D-STAR READY DUAL BAND HTs

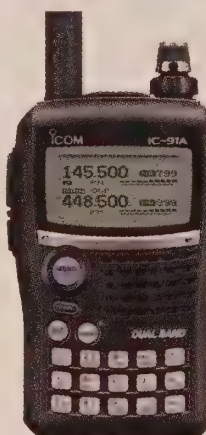
IC-80AD FM & D-Star Ready Dual Band HT Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: 0.495 - 999.990 MHz cellular blocked. 1052 memory channels including 50 program scan and 2 call channels. Weather channel with weather alert. Four selectable output power levels 5/2.5/0.5/0.1W. When

using the optional HM-189GPS GPS Speaker microphone, the IC-80AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation.

Dim: 2.3" w x 4.0" h x 1.34" d; 10.3 oz. **CALL/WEB**

Available Accessories:

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 (2) AA battery case, BP217 7.4V 1300mAh lithium-ion battery, CP19R Cigarette cable with filter, HM131 Speaker/mic/earphone jack/clip, HM189GPS Speaker mic with GPS unit, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, MB86 Swivel belt clip, OPC1529R Data communications cable, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, SP13 Earphone, NIF MMIC80AD Nifty mini manual & reference card combo, RTS WCS80 RT Systems programming software & USB cable



IC-91A 2M/440 Dual Band with D-Star Capability The "A" band offers wide reception from 495 kHz to 999.990 MHz (cell blocked) in FM/WFM/AM modes. The "B" band receives from 118 - 174 MHz & 350 - 470 MHz in FM/FM-N/AM and optional Digital Voice mode. Simultaneous receive of a combination of the "A" and "B" bands allows V/V, V/U and U/U operation. 1304 Alpha memories. Power: 5/0.5W on either band.

Digital upgradeable with optional UT-121 D-STAR Digital Voice Unit. Can play a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger. Dim: 2.4" w x 4.2" h x 1.5" d; 10.6 oz. **CALL/WEB**

Available Accessories:

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lithium-ion, CP19R Cigarette cable w/filter, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, OPC1529R Data comm. cable, OPC474 Radio-to-radio clone cable, RS91 Remote control PC software w/RS-232 cable, SP13 Earphone, UT121 D-Star Digital unit, NIF MMIC91AD Nifty mini manual & reference card combo, RTS WCS91 RT Systems programming software & USB cable



IC-92AD Submersible FM & D-Star Ready Dual Band HT - Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: (VFO-A) 0.495-999.990 MHz (cell blocked); (VFO-B) 118-174 and 350-470 MHz. 1304 memory channels including 100 program scan and 4 call channels. Weather channel with weather alert. Dualwatch capability allows receive on two bands simultaneously (including the same band). 5/2.5/0.5/0.1W selectable

power output. When using the optional HM-175GPS GPS Speaker microphone, the IC-92AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Military tough, submersible to 1 meter for 30 minutes. Comes with Lith-ion battery, belt clip, SMA antenna, wrist strap and wall charger. Dim: 2.3" w x 4.4" h x 1.3" d; 11.5 oz. **CALL/WEB**

Available Accessories:

AD92SMA SMA - BNC adapter, BC177 Desk rapid charger, BP256 7.4V 1620mAh lith-ion, BP257 AA battery case, CP19R Cigarette cable with filter, HM131 Speaker/mic/earphone jack/clip (OPC1797 required), HM174 Waterproof Speaker/mic, HM175GPS Waterproof speaker/mic/GPS unit, HM75A Remote control mic (OPC1797 required), HS85 Headset with VOX (OPC1797 required), LC168 Carrying case, OPC1797 Plug adapter cable for use with the HM75A, HM131, HS85 & OPC474, OPC254L Mini DC power cable, OPC474 Radio-to-radio clone cable (OPC1797 required), RS92 Remote control PC software (RS-232 cable), SP13 Earphone, NIF MMIC92AD Nifty mini manual & reference card combo, WCS92 RT Systems programming software & USB cable (OPC1797 required)

Please call/web for current prices & promotions.



IC-U82 2M High Power HT with D-Star Capability 7W output @ 7.2V DC; 6.0-10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice & slow data communication. Built in CTCSS/DTCS; Auto low power/power saver; 200 memories; Auto repeater function; PC cloning capability; NOAA WX channel RX (IC-U82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1" w x 5.5" h x 1.4" d; 13.8 oz.

IC-U82 - Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W output. **each CALL/WEB**

Available Accessories:

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid desk charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP222N 7.2V 600mAh 5.5W battery, CSV82 cloning software, HM128L Rectangle plug earphone + mic, HM158L Rectangle speaker/mic/ear-jack/clip, HM46 Slim-line speaker, HM54 Heavy duty speaker, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Earhook headset w/boom mic, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, SP13 Earphone, UT108 DTMF decoder unit, UT118 D-Star Digital unit, VSIL PTT/VOX unit

HF/6M
RADIO

TS-480HX HF/6M All-Mode Transceiver Covers HF/6M, including 60M and receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two 22A power supplies), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Full range of CW features; Auto tune; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Optional IF filters available; PSK31 compatible; Packet cluster tune with TM-D700A or TM-D710A; PC-based control. Dim: 7.06" w x 2.38" h x 10.19" d; 7.05 lbs. (main unit), 7.06" w x 2.94" h x 1.44" d; 1.1 lbs. (control head)..... **CALL/WEB**

TS-480SAT - 100W version of the HX. Includes built-in automatic antenna tuner..... **CALL/WEB**

Available Accessories:

HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB480 Carry bracket w/handle, MC43S 8-pin hand mic, MC47 Multi function 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, MJ88 Modular to 8 round pin mic adapter, PG20 22' DC cable, PG4Z 13' panel extension kit, SO3 TCXO unit, SP23 Speaker, SP50B Mobile speaker, VGS1 Voice guide/storage unit, YF107C 500 Hz CW filter, YF107CN 270 Hz CW filter, YF107SN 1.8 kHz SSB filter

HF/VHF/UHF RADIO



TS-2000 HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the "silver box" version with computer controlled software and no controls (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (0.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports - 2 for HF and 6M, 1 each for 2M, 70cm and HF RX. Dim: 10.6" w x 3.7" h x 12.5" d; 17.2 lbs..... **CALL/WEB**

TS-B2000 HF/VHF/UHF All Mode Transceiver TS-2000 but does not have front panel controls or LCD display. Includes ARCP-2000..... **CALL/WEB**

TS-2000X HF/VHF/UHF All Mode Transceiver TS-2000 w/1.2 GHz..... **CALL/WEB**

Available Accessories:

ARCP2000 PC/radio control software (included with B2000 model), DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC43S 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z 6.5' DC cable, RC2000 Remote face plate mobile kit, SP23 Speaker, VS3 Voice synthesizer, NIF MMTS2000/X Nifty mini manual

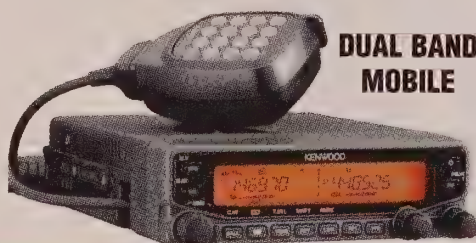
HF/6M RADIO



TS-590S HF/6M All Mode Transceiver - Covers 160-6M including 60M band. Receive Range: 0.13-60 MHz. Power: 100W PEP SSB. Modes: CW/SSB/AM/FM/FSK. Built-in automatic antenna tuner can operate even while receiving. Digital IF filter. Powerful 500 Hz/2.7 kHz roofing filter. Down conversion receiver, narrow first roofing filter and dedicated first mixer, which gives it the best dynamic range in its class when handling unwanted adjacent off-frequency signals. A 6kHz first roofing filter directly after the mixer enhances the noise blanker's operation. Gives receive performance that allows hearing signals that normally would be hidden on other radios. The DSP based AGC has been improved for greatly improved in-band IMD characteristics. A 32-bit DSP is employed from the IF stage forward. The transmit section uses a die-cast aluminum chassis combined with a large heat-sink and dual fans which makes it capable of withstanding long hours of operation as found on DXpeditions or during contests. Large LCD display with 2-color backlight (green or amber); Adjustable TX filter and EQ; Speech processor, Adjustable TX power output; Electronic memory keyer, Full/semi break-in CW; Direct frequency entry via keypad; USB connectivity for PC and remote control; Optional TCXO, Optional Voice guide and storage; Two SO-239 antenna connections. **All information is from a preliminary source.** Dim: 10.6" w x 3.8" h x 11.5" d; 16.3 lbs. **CALL/WEB**

Available Accessories:

HS5 Headphones, HS6 Headphones, KPS15 23A switching power supply, MB430 Mobile bracket, MC47 Hand mic, MC60A Desktop mic, MC90 Deluxe desktop mic, PG20 22 ft. DC cable, PS60 HD power supply (13.8 VDC @ 22.5 amps), SO3, TXCO unit, SP23 External speaker, SP50B Mobile speaker, VGS1 Voice guide & storage unit



TM-V71A 2M/440MHz Dual Bander - Covers 144-148 and 430-450 MHz with 118-524 and 800-1300 MHz receive (cell blocked). Dual Display with dimmer. Visual band scope. 1000 multi-function memory channels (10 memory scan banks) with alpha tags up to six characters. Call channel. Ten dedicated EchoLink® memory channels. Power levels are 50/10/5W on both bands. Includes: Dual receive (V+V, U+U), weather alert and cross-band repeater operation. CTCSS, DCS and tone Burst encode/decode. PL Decode/Encode Automatic repeater offset. Data jack for external TNC. Dual audio outputs on rear panel. Compatible with ARRL TravelPlus® software. Free MCP-2A programming software from www.kenwoodusa.com. Dim: 5.5" w x 1.7" h x 7.1" d; 3.3 lbs.... **CALL/WEB**

Available Accessories:

DFK3D Front panel separation kit, MJ88 Modular to 8 round pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G PC serial programming cable [DB9], PG5H PC interface cable kit, PG5J Interface kit for RCD710, RCD710 TNC/APRS control head, SP50B External mobile speaker, VGS1 Voice guide and storage unit, NIF MMTMV71A Nifty mini manual

KENWOOD

DUAL BAND
MOBILE w/TNC

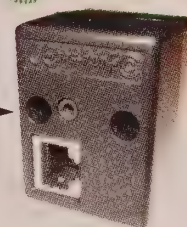
TM-D710A 144/440 MHz Dual Band Data Communicator - Many more features than its predecessor, the popular TM-D700A. Covers 144-148 and 430-450 MHz transmit with 118-524 MHz (Band A), 136-524 MHz and 800-1300 MHz (Band B) less cellular receive. Dual receive, even on same amateur band; NOAA weather alert; 1000 memory channels. 50/10/5W output on both VHF and UHF. MCP compatible with the ARRL TravelPlus® CD. Allows you to route your trip in the TravelPlus software, and it figures out all the repeaters that are on the route and imports the frequency, offset and PL tone into the TM-D710A. Key features include: internal clock for APRS® (Automatic Packet/position Reporting System) time and date stamp, APRS functions: Sort; Filter; QSY; Decay algorithm; Proportional pathing; Speed and altitude beaconing, Weather beaconing with Davis® weather stations; Voice alert. EchoLink® ready with ten dedicated channels; Built-in sound card interface; NMEA 0183 GPS I/O port - can be employed as part of Kenwood's Skycommand System II+ when used with the TS-2000 series. Selectable orange or green screen background. Dim: 6.24" w x 2.81" h x 2.24" d (panel), 5.60" w x 1.76" h x 6.32" d (body); 3.3 lbs. **CALL/WEB**

Available Accessories:

GLL GPS710 PNP GPS unit, GLL SEP71024 24" separation kit for GPS710, MJ88 Modular to 8 round pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G Programming interface kit, PG5H Computer interface kit, SP50B External mobile speaker, VGS1 Voice guide and storage unit, NIF MMTMD710A Nifty mini-manual



GREEN LIGHT LABS



GPS-710 mounted to the back of the Kenwood TM-D710A with included cables.

GPS-710 Plug-and-Play GPS for the Kenwood 710-Series - The GPS-710 is a custom built, uncluttered, plug-and-play solution for adding a stand-alone GPS to your Kenwood TM-D710 or RC-D710. It uses a top-notch 20 channel SiRF-III GPS chipset (with WAAS, ENGOS, and MSAS augmentation) that can acquire GPS lock from a cold start in well under 60 seconds. The active internal antenna has proven itself in prototyping and beta testing to maintain GPS lock, even in very unfavorable placements. The quick and easy install and setup takes typically less than 5 minutes **\$129.99**

SEP-710-24 - 24 inch separation cable kit to mount on vehicle glass or other spots **\$18.99**

Please call/web for current Prices & Promotions.

SINGLE BAND HANDHELD

TH-K2AT 2M FM HT

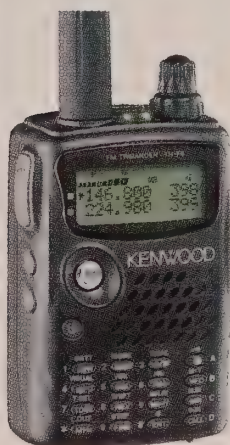
5/1.5/0.5W selectable RF output; 100 memories with 6-characters; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming;

Charges 3x faster than previous models with its high-capacity NiMH battery.

Dim: 2.4" w x 5" h x 1.1" d; 12.5 oz. **CALL/WEB**

Available Accessories:

BT14 Six "AA" battery holder, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, KHS22 Boom mic headset, KHS26 Lapel clip mic/earphone PC, KSC24 Rapid charger, PB43N 7.2V 1100mAh NiMH battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC54 Soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag



TRI BAND HANDHELD

TH-F6A FM Tri Band HT

Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked); includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; 5/0.5/0.05W output one all three bands; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for program-mable scan; 16-key backlit

pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via www.kenwood.net (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, SMA antenna, hand strap, PB-42L 7.4V 2000mAh lithium-ion battery pack, AC wall charger.

Dim: 2.3" w x 3.4" h x 1.2" d; 8.8 oz. **CALL/WEB**

Available Accessories:

BT13 AA battery case, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, KHS22 Boom mic headset, KHS26 Lapel clip mic/earphone PC, PB42L 7.4V 2000mAh lithium-ion battery, PG2W DC cable, PG3J Cigarette cord w/filter, PG4Y 9 pin programming cable, SC51 Softcase with swivel belt clip, SMC32 Mini right angle speaker mic, SMC33 Speaker mic w/remote control, SMC34 Speaker mic w/volume function keys, WR2 Water resistant bag, NIF QRTHF6A Nifty quick reference cards

Please call/web for current prices & promotions.

KENWOOD

SINGLE BAND MOBILE

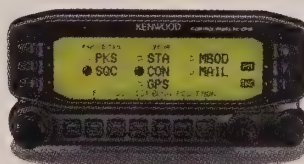


TM-271A 2M FM Transceiver - Covers 144-148 MHz transmit with 136-174 MHz receive. N.O.A.A. Weather band with alert tone; FM Wide/Narrow; Power: 60/25W; 200 alpha memories; MIL-STD compliant; High quality audio; Illuminated keys and large LCD with adjustable brightness; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset. Dim: 6.3" w x 1.7" h x 5.4" d; 2.6 lbs. **CALL/WEB**

Available Accessories:

MJ88 Modular/8-pin adapter, PG2N DC cable, PG5D PC interface cable, SP50B External mobile speaker, NIF QRTM271A Nifty quick reference card

APRS TNC UPGRADE

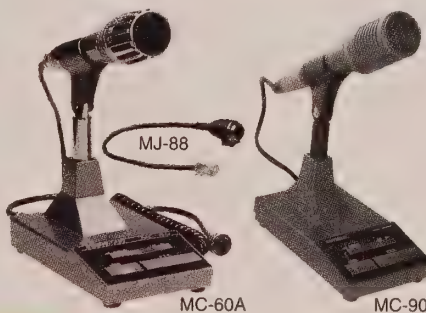


RC-D710 APRS TNC Upgrade - Upgrade your current Kenwood transceiver with APRS features similar to the TM-D710A. It can also replace the TM-V71A control panel to enable all TM-D710A features. Works with TM-V71A, TM-D710A, TM-D700A, TM-V708A, TM-G707A, TM-V7A, TM-733A, TM-255A & TM-455A. **\$299.99**



PG-5H Computer Interface Cable - Connects your TM-V71A or TM-D710A to a Windows® PC for EchoLink®, program memory channels or use with the ARRL TravelPlus® software to import Repeater information into the radio. **\$64.99**

BASE MICROPHONES



MC-60A Desktop Microphone - Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Operation requires two "AA" batteries **\$149.99**

MC-90 DSP Compatible Desk Microphone - It is supplied with two interchangeable heads. One has a flat response for good overall performance. The other offers exceptional clarity and a characteristic that peaks at around 3 kHz, perfect for DX. A three position switch on the base tailors the low-range cutoff frequency to suit the operator. Includes a 6 ft coiled cord with 8-pin plug **\$249.99**

MJ-88 Modular to 8-pin mic adapter **\$35.99**

HANDHELD MICROPHONES



SMC-34 Speaker microphone with three function keys and volume control **\$35.99**
SMC-33 Remote control speaker mic **69.99**
KHS-26 Clip microphone w/earphone **25.99**
HMC-3 Headset (VOX & PTT) **52.99**
SMC-32 Speaker microphone **54.99**

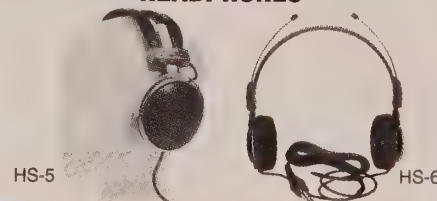
SPEAKERS



SP-23 Base Speaker - A 3 inch 8 ohm speaker in a metal cabinet with flip-out tilt bar. Rated at 1W with a 300-5000 Hz response. Includes a 3 ft cable. Dim: 4.8" w x 3.75" h x 9.25" d; 2.8 lbs. **\$99.99**

KES-5 Mobile speaker - Heavy duty, meets Military standards. This 4 ohm speaker handles 40 Watts of power, for loud and clear audio. Includes a metal bracket and attached cable. Dim: 5.1" w x 5.1" h x 3" d; 1.8 lbs. **\$49.99**

HEADPHONES



HS-5 Deluxe Headphones - Low pressure permits long hours of fatigue free listening. Includes sponge-type earpads and soft vinyl leather pads to seal out noise. 8 ohms, 150-4000Hz response. 6 ft. coiled cord with 1/4 in. plug. Wt. 13 oz. **\$87.99**

HS-6 Lightweight Headphones - 12.5 ohms, 100-10,000 Hz response; 6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz. **\$59.99**

SGC MOBILE/BASE HF AMP



52-96 SG-500 SMARTPower CUBE™ Microprocessor Controlled Linear Amp

Covers 1.8 to 24 MHz, rated at 500W PEP and CW (for 10 min.) with 80W drive (250W on AM). Automatically selects band, adjusts input sensitivity, monitors all parameters for faults (heat, high VSWR, under voltage, etc.) Automatic shutdown at fault. Front panel LED status indicators. Requires 14VDC @ 40A average (SSB), 90A peak. Dim: (less than 1 cubic foot); 1.5" w x 6.1" h x 12.25" d; 21 lbs. **\$1349.99**
51-82 - Fan kit allows 500W PEP or CW continuous transmit operation **\$220.99**

Ride Cycle24 to the Top with Yaesu

The radio... FT DX 9000



HF/50 MHz Transceiver FT DX 9000MP

Two Pairs of Meters, plus LCD Window; Data Management Unit and Flash Memory Slot Built In; Main/Sub Receiver VRF, plus Full Dual Receive Capability, External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters.

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 400 to 200 W not possible.

Photograph depicts after-market keyboard, and monitor, not supplied with transceiver. Display image simulated and does not reflect actual.

Loaded with Leading-edge Performance Capabilities...
The First Triumph in the 2nd Generation of the FT DX 9000 Lineage:
The Powerful FT-2000!



Shown with after-market keyboard, and monitor (not supplied).
Optional Data Management Unit (DMU-2000)



HF/50 MHz Transceiver FT dx 9000D 200 W Version

Large TFT, Data Management Unit and Flash Memory Slot Built In; Main/Sub Receiver VRF, plus Full Dual Receive Capability, Three u-Tuning Modules for 180 - 20 M, 50 V/12 A Internal Switching Regulator Power Supply.



HF/50 MHz Transceiver FT dx 9000 Contest Custom-Configurable Version

Two Pairs of Meters, plus LCD Window, VRF Input Preselector Filter, Three Key Jacks, and Dual Headphone Jacks, 50 V/12 A Internal Switching Regulator Power Supply.

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 200- to 400-Watt version not available.



HF/50 MHz Transceiver FT-2000D 200 W Version (External Power Supply)



HF/50 MHz Transceiver FT-2000 100 W Version (Internal Power Supply)

"The Best of the Best Just Got Better"

Introducing the new FT DX 9000 Series and FT-2000 Series with PEP-9000 and PEP-2000 (Performance Enhancement Program)

For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ers™

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The radio YAESU...

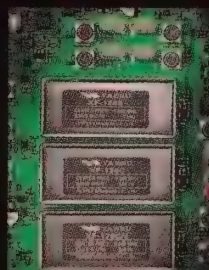
The Dawn of a New Era Dynamic Range 112 dB/IP3 +40 dBm

The New Premium HF/50 MHz Transceiver **FT DX 5000 Series**



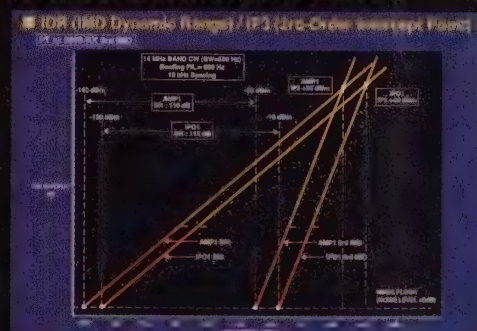
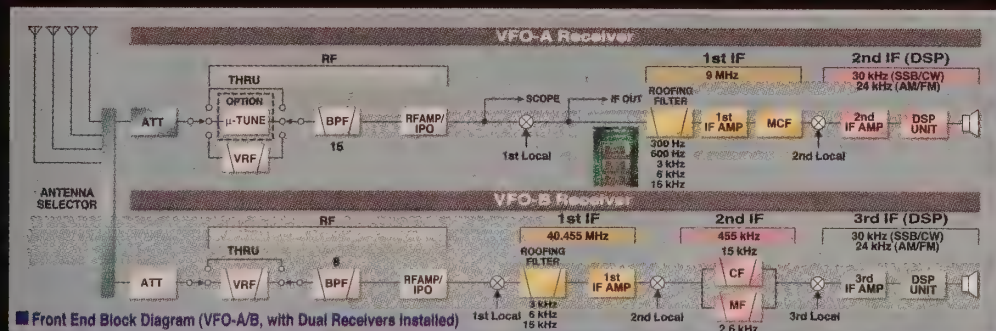
Two Totally Independent Receivers - The VFO-A/Main Receiver utilizes Super Sharp Roofing filters to give you the highest performance and best flexibility

The tight shape factor 6 pole crystal filters and D Quad Double Balanced Mixer design afford incredible improvement in 3rd - Order dynamic range and IP3 performance



Superb 3rd-Order Dynamic Range and 3rd-Order Intercept Point (IP3)

You will be pleased with the astounding 112 dB dynamic range and superb IP3 + 40 dBm at 10 kHz separation (CW/500 Hz BW). Experience the unmatched close-in dynamic range of 105 dB, IP3 +36 dBm at 2 kHz separation (CW/500 Hz BW)! (VFO-A/Main Receiver, 14 MHz, IPO-1)



**HF/50 MHz 200 W Transceiver NEW
FT DX 5000MP**

Station Monitor SM-5000 included
± 0.05ppm OCXO included
300 Hz Roofing Filter included

**HF/50 MHz 200 W Transceiver
FT DX 5000D**

Station Monitor SM-5000 included
± 0.5ppm TCXO included
300 Hz Roofing Filter optional

**HF/50 MHz 200 W Transceiver NEW
FT DX 5000**

Station Monitor SM-5000 optional
± 0.5ppm TCXO included
300 Hz Roofing Filter optional

For the latest Yaesu news, visit us on the Internet:
<http://www.yaesu.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ersSM
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Introducing the Yaesu FT-950 transceiver for DX enthusiasts

Superb receiver performance

Direct lineage from the legendary FT DX 9000 and FT-2000



HF/50 MHz 100 W Transceiver
FT-950

- Triple-conversion super-heterodyne receiver architecture, using 69.450 MHz 1st IF
- Eight narrow, band-pass filters in the RF stage eliminate out of band interference and protect the powerful 1st IF
- 1st IF 3 kHz Roofing filter included
- High-speed Direct Digital Synthesizer (DDS) and high-spec Digital PLL for outstanding Local Oscillator performance
- Original YAESU IF DSP advanced design, provides comfortable and effective reception. IF SHIFT / IF WIDTH / CONTOUR / NOTCH / DNR
- DSP enhancement of Transmit SSB/AM signal quality with Parametric Microphone Equalizer and Speech Processor
- Built-in high stability TCXO (± 0.5 ppm after 1 minute @ 77 ° F)

- Built-in automatic antenna tuner ATU, with 100 memories
- Powerful CW operating capabilities for CW enthusiasts
- Five Voice Message memories, with the optional DVS-6 unit
- Large Multi-color VFD (Vacuum Fluorescent Display)
- Optional Data Management Unit (DMU-2000) permits display of various operating conditions, transceiver status and station logging.
- Optional RF μ -Tune Units for 160 m, 80/40 m and 30/20 m Bands

"The Best of the Best Just Got Better"

Introducing the new FT-950 Series with PEP-950 (Performance Enhancement Program)



COMPACT HF/50 MHz TRANSCEIVER WITH IF DSP

A superb, compact HF/50 MHz radio with state-of-the-art IF DSP technology configured to provide YAESU World-Class Performance in an easy to operate package.

New licensees, casual operators, DX chasers, contesters, portable/field enthusiasts, and emergency service providers - YAESU FT-450... This Radio is for YOU!

HF/50 MHz 100 W All Mode Transceiver

FT-450 Automatic Antenna Tuner ATU-450 optional

FT-450AT With Built-in ATU-450 Automatic Antenna Tuner

Compact size : 9" X 3.3" x 8.5" and Light weight : 7.9 lb



HF/VHF/UHF Portable Operation
Just Got a Lot More Powerful!

FT-897D **TCXO** **DSP** **60 m Band**

HF/50/144/430 MHz

100 W All Mode Transceiver (144 MHz 50 W/430 MHz 20 W)



**Automatic Matching for
FT-897/857 Series Transceivers**

FC-40

Automatic-Matching 200-Memory
Antenna Tuner (160 m ~ 6 m Band)

WATERPROOF



HF/VHF/UHF Multimode Mobile Transceiver,
now Including Built-in DSP

FT-857D **DSP** **60 m Band**

HF/50/144/430 MHz

100 W All Mode Transceiver (144 MHz 50 W/430 MHz 20 W)



**Mobile Auto-Resonating 7~430 MHz for
FT-897/857 Series Transceivers**

ATAS-120A
Active Tuning
Antenna System
(no separate tuner
required)

VHF/UHF
Base Radial Kit
ATBK-100 for
ATAS-120A.



Real Performance,
Really Portable

FT-817ND

HF/50/144/430 MHz

5 W All Mode

Transceiver

(AM 1.5 W)

60 m Band



ATAS MICRO

ATAS-25

Manually-Tuned
Portable Antenna

YAESU
Choice of the World's top DX'ers™

Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

The Hottest Field Gear Anywhere!

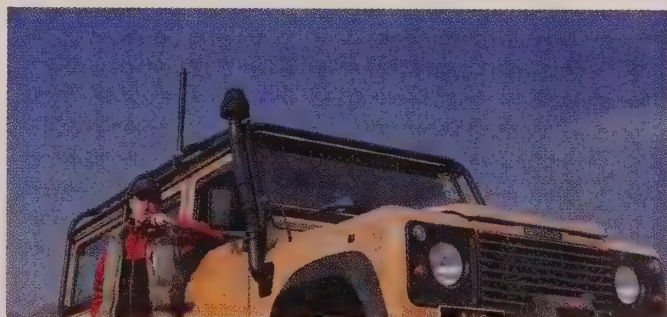


HF/VHF/UHF Portable Operation
Just Got a Lot More Powerful!

FT-897D **TCXO** **DSP** **60 m Band**

HF/50/144/430 MHz

100 W All Mode Transceiver (144 MHz 50 W/430 MHz 20 W)

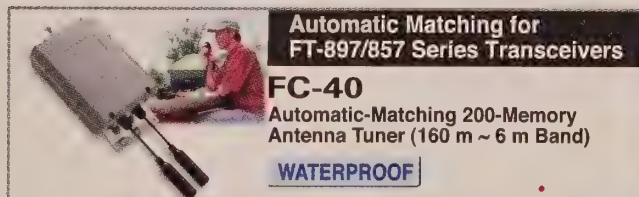


HF/VHF/UHF Multimode Mobile Transceiver,
now Including Built-in DSP

FT-857D **DSP** **60 m Band**

HF/50/144/430 MHz

100 W All Mode Transceiver (144 MHz 50 W/430 MHz 20 W)



Automatic Matching for
FT-897/857 Series Transceivers

FC-40

Automatic-Matching 200-Memory
Antenna Tuner (160 m ~ 6 m Band)

WATERPROOF



Mobile Auto-Resonating 7-430 MHz for
FT-897/857 Series Transceivers

ATAS-120A

Active Tuning
Antenna System
(no separate tuner
required)

VHF/UHF
Base RadialKit
ATBK-100 for
ATAS-120A.



ATAS-25 ATAS MICRO
Manually-Tuned Portable Antenna



REAL PERFORMANCE,
REALLY PORTABLE

FT-817ND

HF/50/144/430 MHz

5 W All Mode Transceiver (AM 1.5 W)

60 m Band

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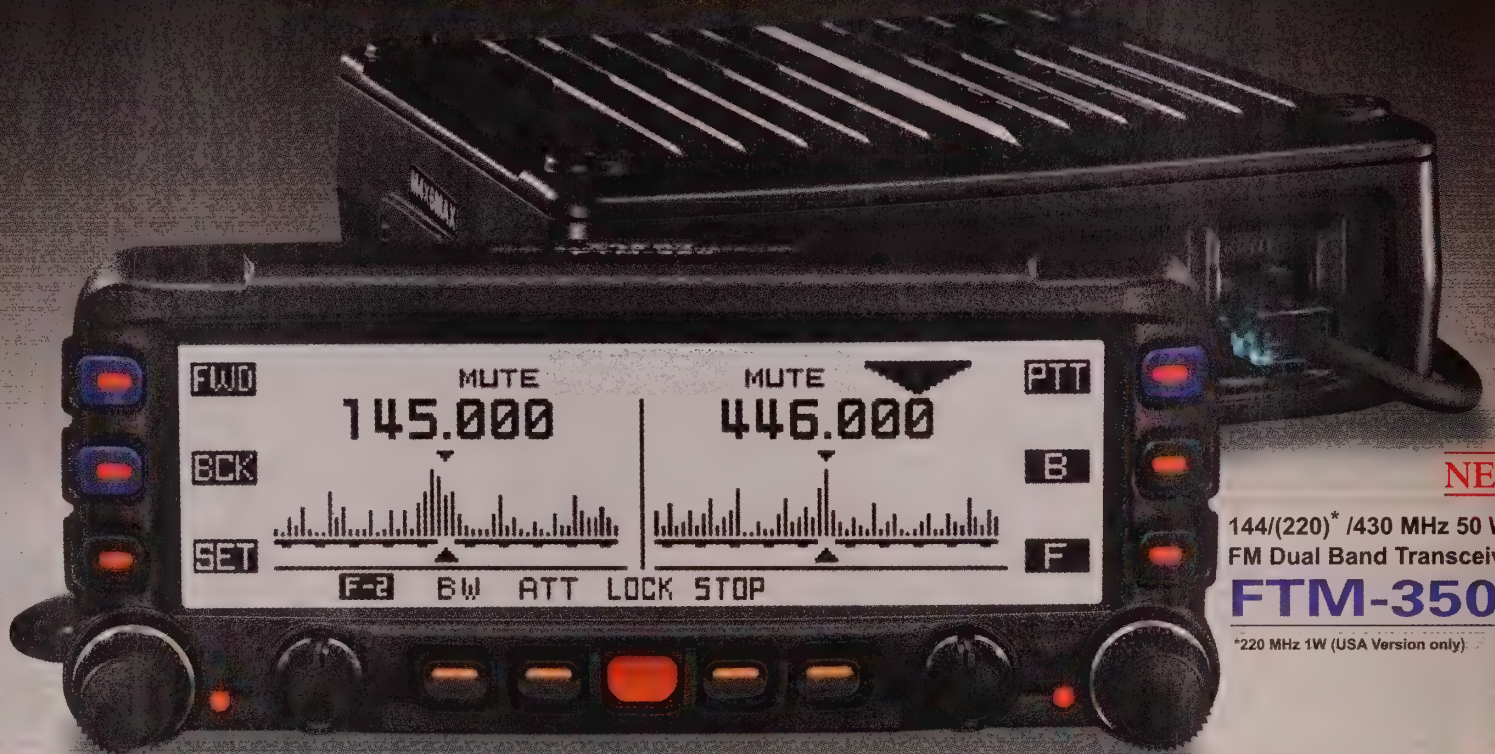
For the latest Yaesu news, visit us on the Internet:
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

The Totally New - Advanced Dual Band Mobile Radio

5.2" x 1.6" Large dot matrix (264 x 64 dots) LCD display

GPS / APRS® / Bluetooth® Features



NEW

144/(220)* /430 MHz 50 W
FM Dual Band Transceiver
FTM-350R

*220 MHz 1W (USA Version only)

NEW

Large (5.2" x 1.6"/130 x 40 mm) dot matrix (264 x 64 dots) LCD display for comfortable viewing for night and day.
Choose your favorite LCD display from 8 vibrant color options

The Display Control Head is designed for easy separation from the main RF power unit built by tough aluminum die-cast; 10ft control cable included (Optional 20ft control cable available)

NEW

NEW

Multi-purpose Global Positioning System display (with optional FGPS-1 GPS Receiver and Antenna. Optional FGPS-2 External GPS Receiver and Antenna is also available)

Compatible with the worldwide standard data-communications system, APRS®, and SmartBeaconing™ capabilities

NEW

NEW

Huge memory channel management capability!
500 Independent Memory channels
+ 9 Programmable Band Limit Memory Scan channels
+ 1 Rewritable Preferred channel for each L and R Band

3 Speaker System
(including Built-in Dual Speakers on the rear of the Control Head for FM Broadcast in Stereo!)

NEW

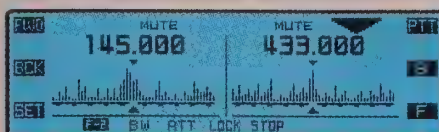
Exclusive

Dual Band AF Monitor for listening to FM/AM broadcast and monitoring ham bands as well

Built-in Barometric Pressure Sensor

Exclusive

Screen Example



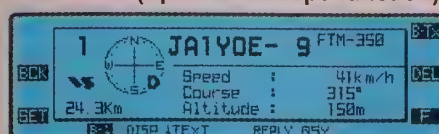
Dual Band (Spectrum Scope function)



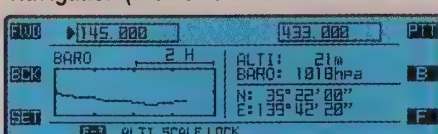
Navigation (with GPS antenna unit attached)



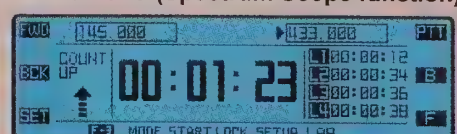
Mono Band (Spectrum Scope function)



APRS®



Barometer



Timer

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<http://www.vertexstandard.com>

* APRS® is a registered trademark of Bob Bruninga WB4APR.
* SmartBeaconing™ from HamHUD Nichetronix

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10900 Walker Street
Cypress, CA 90630 (714)827-7600

Heavy-Duty FM Dual Band Mobile with Exceptionally Wide Receiver Coverage*

*108 to 520 MHz/ 700 to 999.99 MHz (Cellular blocked)



• Separation Kit for Remote Mounting
(optional separation kit YSK-7800 required)

2m/70 cm
DUAL BAND

2 m/70 cm DUAL BAND FM TRANSCEIVER
FT-7900R **new**

The King of Mobile

75 WATTS



HEAVY-DUTY 75 W 2 m FM TRANSCEIVER

new

FT-2900R

2m
MONO BAND

Commercial Grade
Field Radio
Submersible Construction

Compact Field Radio with
Top Mounted LCD and
Loud Audio

Best Selling, Reliable Mobile

55 WATTS



ULTRA RUGGED 55 W 2 m FM TRANSCEIVER

new

FT-1900R

2m
MONO BAND



VHF FM 5 W COMPACT
HANDHELD TRANSCEIVER

FT-270R

2m
MONO BAND

new



2m
MONO BAND

new

ULTRA-COMPACT
5 W 2 m FM HANDHELD
TRANSCEIVER

FT-250R

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A TECHNOLOGY BREAKTHROUGH

New Advanced VX-8 Series GPS/APRS® Handheld Transceivers
Choose the Yaesu that meets your APRS® operating preferences in the field



50/144/(222)*430 MHz
FM 5 W/AM 1W (50 MHz) Triple Band Handheld
VX-8DR 222 MHz/1.5 W (USA version)
(7.4V 1,100 mAh Lithium Ion battery/FNB-101LI and battery charger/NC-86A included)

Actual Size



144/430 MHz
FM 5 W Dual Band Handheld
VX-8GR
(7.4V 1,100 mAh Lithium Ion battery/FNB-101LI and battery charger/NC-86A included)

Actual Size

VX-8DR **NEW**

All-in-one Prestigious Tri-band Transceiver
Bluetooth® for hands-free Operation with optional accessories
Waterproof/Submersible IPX 7 rated - 3 ft for 30 minutes



Optional GPS and antenna unit for GPS/APRS® operation



The optional GPS Antenna Unit FGPS-2 attached to the optional speaker Microphone MH-74A7A.

Attached to the radio (microphone input) using the optional GPS Antenna Adapter CT-136

Bluetooth

VX-8GR **NEW**

144/430 MHz Dual Band Transceiver with GPS unit included
Built-in GPS Antenna - Waterproof
Wide Band Receive for 108-999 MHz (Cellular blocked - US Version)



Supports APRS® communication by the Built-in Worldwide Standard AX.25 Data TNC

The VX-8 series radios are compatible with the world wide standard APRS® (Automatic Packet reporting System) using the GPS system to locate and exchange position information.

- SmartBeaconing™ Function
- Memories to list 50 stations
- Memories to store 30 APRS® messages
- DIGI-PATH routing indication function
- 8 DIGI-PATH routing settings
- GPS Compass Display - "Heading Up" or "North Up"
- APRS® Symbol Icon pre-set function
- Clearly displayed APRS® Beacon Messages
- Selective Message Received indicated by Flashing LED

APRS® is a registered trademark of Bob Bruninga WB4APR. SmartBeaconing™ from HamHUDD Nichetronix

For the latest Yaesu news, visit us on the Internet:
<http://www.yaesu.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

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ALPHA AMPLIFIERS PRODUCT LINE



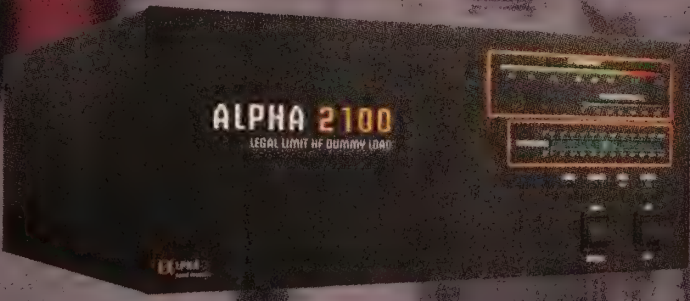
ALPHA 9500 Linear Amplifier - Experience the magic of almost instantaneous band switching and tuning with the Alpha 9500. Send a few 'dits' and the 9500 quickly changes bands, tunes and loads, putting you right where you want to be. Easily puts out full legal limit with as little as 45 watts of drive using the easy to find, robust 3CX1500A7/8877 tube.



ALPHA 8406 Linear Amplifier- If you're serious about 6 meters and are looking for the ultimate, full legal limit, no time limit 6 meter amp, the 8406 is your amp. Built to be a "Good neighbor" amp, the second harmonic is down over 73dB. Built with our 3.6 kVA power supply, a 4CX1500 tetrode, and famous Alpha style tank circuit, this amp will be your 6 meter workhorse for years to come. The 8406 handles the most demanding digital and analog modes with ease and at full duty cycle.



ALPHA 8410 Linear Amplifier - Built with two 4CX1000 tetrodes, and our 3.6 kVA power supply, this manual tune amp is both powerful and forgiving. Contesters and DX'ers all over the world have found this amp to be their amp of choice for reliable, high power operation. The 8410 operates on all ham bands from 160 meters through 10 meters.



ALPHA 2100 Dummy Load - This is a no nonsense dummy load capable of dissipating 6kW for 2 to 3 minutes and legal limit all day long. Four Florida RF 200 ohm resistors mounted on a ten pound slab of copper, mounted on top of a 27 pound aluminum heatsink easily handles the power. We use these dummy loads to burn in our amplifiers for hours at a time. A bypass mode makes this unit convenient to just leave in line.



ALPHA 4510/4520 Wattmeter - Choose from our 300mW to 3kW or 10W to 5kW full scale versions of our multi-featured wattmeters. Display Forward, Reverse, or SWR on the analog meter while the digital display shows PEP or instantaneous power. No slugs to buy. Each unit is individually factory calibrated over the full frequency range and in a temperature controlled oven for accurate readings over its entire range.

YAESU

HF/6M RADIOS



FT-450AT HF/6M 100W Compact Transceiver Covers 160-6M TX with 0.03-56 MHz RX and AM/FM/SSB/CW modes, built-in CTCSS. 500 regular memories; Power: 100W output. ATU-450 auto antenna tuner is factory installed. 10 kHz roofing filter and 400 MHz IF DSP. Built-in electronic keyer with 118 character CW beacon function. LCD display and bar-graph metering. Selectable AGC, IF width & shift, contour, digital noise reduction, manual notch filter and clarifier. IPO, VOX. Dedicated Data Jack for FSK-RTTY. Digital voice announcement of frequency, mode and S-meter. Comes with hand mic, mic clip & DC power cord. Dim: 9" w x 3.3" h x 8.5" d; 7.9 lbs. **CALL/WEB**

FT-450 - Same as the FT-450AT but without the automatic antenna tuner. **SPECIAL ORDER**

Available Accessories:

BET YAE TUNECONT Better RF tune control, NIF MMFT450/AT Nifty mini manual, ATAS120 HF/6/2/430 antenna, ATBK100 ATAS120 base kit, CT118 Control cable for Quadra System, FC40 External automatic wire antenna tuner, FP1023 23A Switching power supply, FP1030A 25A Power supply, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MHG1 Carrying handle, MMB90 Mobile mounting bracket, T9023725 Extra DC cord, T9207451 6.5' 10-pin DIN plug & cable, YH77STA Stereo headphones



FT-950 HF/6M 100W Transceiver - Covers 160-10 Meters + 50 MHz band (TX) and 0.03-56 MHz (RX), all modes. Power: 100W SSB/CW/FM (25W AM). DSP is utilized throughout the design providing leading-edge performance on both transmit and receive. This incorporates many features such as Variable Bandwidth, IF Shift and Passband Contour tuning. Also provided are Digital Noise Reduction, Digital Auto-Notch Filtering and manually tuned IF Notch filter. The DMU-2000 is an option that provides extensive display capabilities via a user-supplied VGA computer monitor. Some of these capabilities include Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, extensive Transceiver Status Displays and Station Logging Capability. Other features include Speech Processing, built-in Electronic Keyer, Digital Noise Reduction, two antenna jacks and Automatic Antenna Tuner.

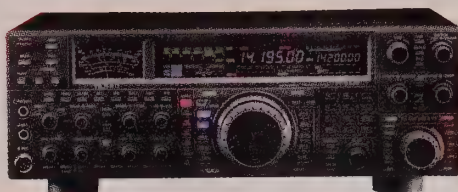
Dim: 14.4" w x 4.5" h x 12.4" d; 28.7 lbs. **CALL/WEB**

Available Accessories:

BET YAE TUNECONT Better RF tune control, NIF MMFT950 Nifty mini manual, CT118 Control cable for Quadra System, DMU2000 Data management unit, DVS6 Voice memory unit, FC40 Auto tuner, FH2 Remote Keypad, FP1023 23A Switching power supply, FP1030A 25A Power supply w/meters, MD100A8X Desk mic. w/tone control, MD200A8X Dlx hi-fidelity desk mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SP2000 External speaker w/audio filters, T9023725 Extra DC cord, T9101556 Rotor control cable, T9207451 6.5' 10-pin DIN plug & cable, YH77STA Stereo headphones

Please call/web for current prices & promotions.

HIGH-END HF/6M BASE STATIONS



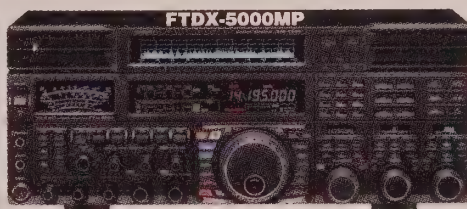
FT-2000 HF/6M 100W Transceiver - Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Power output: 100W. Features: Built-in automatic antenna tuner; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays.

Dim: 16" w x 5.3" h x 14" d; 33 lbs. **CALL/WEB**

FT-2000D - Same as the FT-2000 but 200W output & ext. power supply included. **CALL/WEB**

Available Accessories:

NIF MMFT2000/D Nifty mini manual, W4R OPFCW W4RT 500 Hz Collins, W4R OPFCW300 W4RT 300 Hz Collins, CT119 Firmware upgrade cable, DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk mic. w/tone control, MD200A8X Dlx hi-fidelity desk mic., MH31B8 Extra hand mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SP2000 External speaker w/audio filters, T9101556 Rotor control cable, YF122C 500HZ Collins CW filter, YF122CN 300HZ Collins CW filter, YH77STA Stereo headphones



FTDX-5000 HF/6M 200W Transceiver Series

The new Premium Class of Yaesu radios with 2 Independent Receivers and many features designed to meet the performance requirements of even the most demanding Amateur Radio operator. The Final Amplifier Stage incorporates two super reliable FET, VRF-150 in a push-pull configuration, offers solid 200 W output (75 W Class A operation). Each VFO-A & VFO-B has its own 32-bit Floating Point DSP. Uses the same metering system as the FTDX-9000 series with true analog precision and instant reaction time. The SM-5000 is an excellent bandscope station monitor and stereo speaker system that is included with the FTDX-5000D & MP. Super sharp "Roofing" filters for VFO-A/Main Receiver that are selectable between 300 Hz (XF-126CN required), 600 Hz, 3/6/15 kHz. Variable CW Audio Peak Filter, and High/Low-Cut filtering. All three have built-in power supply. Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Output is 10-200W (CW, SSB, FM, RTTY, PKT) & 5-50W (AM carrier). Memories: 99 can be arranged into 6 groups. Dim: 18.2" w x 5.3" h x 15.3" d; 46.3 lbs.

FTDX-5000 **CALL/WEB**

FTDX-5000D With Station Monitor. **CALL/WEB**

FTDX-5000MP With Station Monitor, 300 Hz Roofing Filter and ± 0.05 ppm OCXO. **CALL/WEB**

Available Accessories:

DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk mic. w/tone control, MD200A8X Dlx hi-fidelity desk mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SM5000 Station Monitor (comes with 5000MP & 5000D), SP2000 External speaker w/audio filters, T9101556 Antenna rotor control cable, XF126CN 300 Hz CW filter (comes with the 5000MP), YH77STA Stereo headphones



FTDX-9000 Series - Covers HF and 6 meters; available in three configurations including 200W and 400W versions. Class-A operation at 100W with 400W version and 75W with the 200W versions. The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does. Dim: 20.4" w x 6.5" h x 17.3" d; 55-66 lbs.

FTDX-9000D 200W, TFT display. ... **CALL/WEB**

FTDX-9000MP 400W, option TFT. **CALL/WEB**

FTDX-9000 Contest 200W, no TFT. **CALL/WEB**
(all FTDX-9000 radios are drop shipped from Yaesu)

Available Accessories:

MD100A8X Desk mic w/tone control, MD200A8X Dlx hi-fidelity desk mic, MH31B8 Extra hand mic, SP9000 Ext. dual speakers w/filters for FTDX-9000D & FTDX-9000Contest, YH77STA Stereo headphones

FTDX-9000Contest & MP Accessories From Factory:
MTU160/DS 160M MTU, MTU30/20/DS 30/20M MTU, MTU80/40/DS 80/40M MTU, TFT9000 TFT display unit

FTDX-9000Contest Accessories From Factory:
DMU9000 Data management unit, RXU9000 Dual RX unit, VRF9000 VRF unit for RXU9000

YAESU HF POWER AMPLIFIER



VL-1000/VP-1000 QUADRA SYSTEM

HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply
Covers 160 to 15 Meters, plus 6 Meters. Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6M) with 80W of drive. No tune-up, automatic bandswitching with FT-450, FT-857, FT-897, FT-920, FT-950, FT-1000 series, FT-2000 series, DX-5000 series and DX-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The large dot-matrix LCD provides amplifier status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks for versatile equipment and antenna configurations. Dim: 16.25" w x 5.9" h x 17.7" d, 46.3 lbs. (Amp); 16" w x 5.9" h x 15" d, 32.2 lbs (PS) **CALL/WEB**

HF/VHF/UHF RADIOS



FT-857D Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile – Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode. Now includes 60M! Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1–56, 76–108, 118–164 and 430–470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, multi-color dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control microphone. Dim: 6.1" w x 2.0" h x 9.2" d; 4.6 lbs.

YSK-857 Included with purchase..... **CALL/WEB**

Available Accessories:

BET YAETUNECONT Better RF tune control, NIF MMFT857D Nifty mini manual, W4R OBPSTD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPFSSB W4RT 2.3 KHz Collins, W4R OPFCW300 W4RT 300 Hz Collins, ADMS4BU Programming Software w/USB cable, ATAS120 HF/6/2/430 antenna, ATAS25 40/20/15/10/6/2/430 antenna, ATBK100 ATAS120 base kit, CT39 Packet cable, CT58 Band data cable, CT62 Cat interface cable, EDC20 DC cord, FC30 External antenna tuner, FC40 Auto tuner, FP1023 23A power supply, FP1030A 25A power supply w/meters, MD100A8X Desk mic w/tone control, MD200A8X Deluxe high fidelity desk mic, MH36E8J TTP mic, MH59A8J Remote control TTP mic, MLS100 Mobile speaker, TCX09 TCXO unit (0.5ppm), T9023225 Extra DC cord, YA007FG FG whip w/mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter, YH775TA Stereo headphones, YSK857 Separation kit

YAESU

HF/VHF/UHF QRP



FT-817ND HF/VHF/UHF Backpack Transceiver Self-contained and low power for portability. Covers 160–10M, 60M, 50 MHz, 144 MHz, 430–450 MHz, plus Alaska emergency channel (5167.5 kHz) Receive: 100 kHz – 56 MHz, 76–154 MHz, 420–470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM (13.8V external DC), 1.5W AM, 2.5W SSB/CW/FM (9.6V NiCad pack) or 8 AA's (includes internal alkaline case), 0.7W AM, up to 5W SSB/CW/FM. Power programmable via menu. Dual VFOs; 200 alphanumeric memories (home channels and band-limit); SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet; RTTY, PSK31-U, PSK31-L, user-defined USB/LSB. Two-color, multi-function LCD meters ALC, power output, SWR, modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability; 1400mAh NiMH battery and charger. Dim: 5.3" w x 1.5" h x 6.5" d; 2.6 lbs..... **CALL/WEB**

Available Accessories:

NIF MMFT817ND Nifty mini manual, W4R OBF817/NDDIY W4RT CW & SSB Collins Filter, W4R OBPSTD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPFSSB W4RT 2.3 KHz Collins, W4R OPFCW300 W4RT 300 Hz Collins, ADMS4AU Programming software w/USB cable, ATAS25 40/20/15/10/6/2M/430MHz antenna, CSC83 Soft case, CT39 Packet cable, CT62 CAT interface cable, EDC6 DC cord, FNB85 9.6V 1400mAh NiMH, MH36E8J TTP mic, MLS100 Mobile speaker, NC72B Wall charger, TCX09 TCXO unit, YA007FG FG whip with mount, YF122C 500 Hz Collins CW, YF122CN 300 Hz Collins CW, YF122S 2.3 kHz Collins SSB



FT-2900R 75W 2M FM Mobile – Improves from the FT-2800M in many ways: Increased the maximum output to 75W, has a larger LCD display, "Memory Only" mode and EPCS (Enhanced Paging & Code Squelch) which allows you to place a call to a specific station and to receive calls of your choice directed only to you. The radio utilizes a ultra-high dissipation heat sink design, eliminating the need for a cooling fan. Covers 144–148 MHz transmit with 137–174 MHz receive. Includes Weather with Alert and 221 memories. Power: 75/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Mic gain control; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready. Dim: 6.3" w x 2" h x 7.3" d; 4.2 lbs..... **CALL/WEB**

Available Accessories:

NIF MMFT2900R Nifty mini manual, ADMS2900 Programming software w/USB cable, MLS100 Mobile speaker, S8002051 Extra mobile bracket, T9021015 Extra DC cable

DUAL BAND MOBILE



FT-7900R 50/45W 2M/440 MHz FM Mobile New replacement for the FT-7800R. Most of the same features as the previous model except 45W maximum output on 440 MHz and added "Memory Only" mode. Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater or satellite operation on both bands, without the need for cross-band repeat. Covers 144–148 & 430–450 MHz transmit with 108–520 & 700–999 MHz (cell blocked) receive. Power output: 50/20/10/5W on 2M and 45/20/10/5W on 430 MHz; N.O.A.A. WX alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; "Memory Only" mode; Built-in CTCSS and DCS encoder/decoder circuits Illuminated keypad & mic keys; WIRES™ capability and many other comon Yaesu features like Time-Out Timer (TOT), Automatic Power Off (APO), Automatic Repeater Shift (ARS) and Auto-Range Transponder System (ARTS). Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs.

YSK-7800 Included with purchase..... **CALL/WEB**

Available Accessories:

NIF MMFT7900R Nifty mini manual, ADMS7900 Programming software w/USB cable, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 Extra DC cable, YSK7800 Remote separation kit

Please call/web for current prices & promotions.

SINGLE BAND MOBILES



FT-1900R 55W 2M FM Mobile – Most of the same features as the FT-1802M except 55W maximum output and added "Memory Only" mode. Extended receive 136–174 MHz (includes a 10 channel NOAA weather bank); Power: 55/25/10/5W; 221 Alphanumeric memories with eight banks; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry. "Memory Only" mode disables VFO operation making this radio perfect for first time use operators like during public service events. Just program the memory channels and use the Dial Knob to flip through the memories. Dim: 5.8" w x 1.6" h x 5.8" d; 2.6 lbs. **CALL/WEB**

Available Accessories:

NIF MMFT1900R Nifty mini manual, ADMS1900 Programming software w/USB cable, MLS100 Mobile speaker, T9021715 Extra DC cable



FT-897D HF/VHF/UHF Multi-Mode Portable/Base – Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis. Dim: 7.9" w x 3.14" h x 10.3" d; 8.6 lbs. **CALL/WEB**

Available Accessories:

Uses the same accessories as the FT-857D above, except: NIF MMFT857D, CT58, FP1023, FP1030A, TCX09 & YSK857 Additional accessories for FT-897D: NIF MMFT897D Nifty mini manual, CD24 4-hr charge adapter for FNB78, FNB78 4.5AH NiMH battery, FP30 Internal PS, MMB80 Mobile bracket, PA26B 110VAC charger for CD24

DUAL & QUAD BAND MOBILES



FT-8800R 50/35W 2M/440 MHz FM Mobile Easy operation, outstanding receiver performance, and crossband repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) wide coverage receive; Power: 50/20/10/5W on 144 MHz, 35/20/10/5W on 440 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band and six "Hyper Memories"; Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; One-touch band pattern; CTCSS/DCS (50/104 tone); Dim: 5.5"w x 1.6"h x 6.6"d; 2.2 lbs. **YSK-8900 Included with purchase CALL/WEB**

FT-8900R Quad Band FM Mobile – Same as the FT-8800R but covers 28-29.7, 50-54, 144-148, 430-450 MHz TX with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) RX. Power: 50/20/10/5W (10/6/2M), 35/20/10/5W (430 MHz). **YSK-8900 Included with purchase CALL/WEB**

Available Accessories for FT-8800R & FT-8900R: NIF MMFT8800R Nifty mini manual (FT-8800 only), NIF MMFT8900R Nifty mini manual (FT-8900 only), ADMS2H Programming software w/USB cable (FT-8900 only), ADMS2I Programming software w/USB cable (FT-8800 only); CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release bracket, T9021810 Extra DC cable, YSK8900 Remote separation kit



FTM-10 series doesn't include a hand mic. Mic and PTT is built in the control head.

FTM-10R 50/40W 2M/440 MHz FM Mobile Compact, perfect for outdoor motor sports communications. TX: 144-148 and 430-450 MHz; RX: 0.5-1.8, 76-222, 300-999 MHz (cell blocked). Has 500 memory channels with 8-digit alphanumeric tags. Listen to AM or FM broadcast and monitor an amateur band at the same time. AM/FM/NFM/WFM (Stereo) modes. Power Output: 50/20/5W on 144 MHz and 40/20/5W on 440 MHz. The mic and PTT button are built into the front panel. Optional conventional hand mic MH-68A6J is available. Dual receive; Smart Search; CTCSS & DCS; DTMF. 1200/9600 bps Packet jack; WIRES-II™ and Bluetooth capable. PA function; Comes with mounting brackets and 10 ft. separation cable. Dim: 4.4"w x 1.5"h x 7"d; 2.9 lbs. **CALL/WEB**

FTM-10SR – Lower power @ 10W (2M), 7W (440 MHz), smaller & waterproof. **C/O CALL/WEB**

Available Accessories: AMK1 License plate bracket for YHAM-10, BLUETOOTHKIT Bluetooth kit, CD40 3 hour bluetooth charge cradle, COX2MM 6.6' coax cable for YHAM-10, CTM10 20' separation cable, CTM11 Headset connection cable, FEP4 Other earphone for bluetooth, MEKM10 Mic adapter jack, MH68A6J Waterproof DTMF hand mic, MH68B6J Waterproof 3-key hand mic, MLS200M10 High power waterproof external speaker, MMBM10 Multi-angle stand bracket, MMBM11 Multi-angle handlebar bracket, NC85B Battery charger for CD40, YHAM10 2M/440 19.7" antenna

YAESU

DUAL BAND WITH OPTIONAL APRS & BLUETOOTH

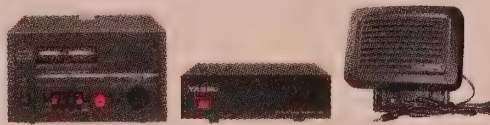


Comes with a standard DTMF hand mic.

FTM-350R 50W 2M/440 MHz FM Mobile with Optional GPS / APRS® / Bluetooth® Features The large 5.2" x 1.6" dot matrix LCD display has the choice of 8 different vibrant background colors. Dual speakers are mounted on the rear of the control head. For GPS and APRS® operation the optional internal GPS Receiver (FGPS-1) or the external GPS (FGPS-2) with (CT-136) Adapter and (CT-133) Extension cable is required. With GPS you are able to display your friends APRS® Stations (FTM-350R and VX-8R/DR/GR) directions, distances and other information in relation to your location. The optional Bluetooth® Unit (BU-1) provides hands-free radio operation with the optional Bluetooth® headset (BH-1). The optional (FPR-1) Monitor Unit receives your transmission out to about 1000 ft. depending on transmit power and other conditions. Give this small device to others so they can hear your transmissions during emergencies, special events, etc. Covers 0.5-1.8, 76-250 and 300-1000 MHz receive (cell blocked) with AM & FM Stereo Broadcast on the "L-Band". 108-250 and 300-1000 MHz receive (cell blocked) on the "R-Band". Transmits 144-148 and 430-450 MHz at selectable 50/20/5W, 222-225 MHz at 1W. 500 memory channels for each L & R Band makes a total of 1000 with alpha-tags. Nine programmable Band Limit Memory Scan channels. The front panel has a built-in mic and can activate the PTT button or use the DTMF hand mic that is included. 1200/9600 bps 8-pin mini DIN packet port. Simultaneous Dual Band Receive and Full-Duplex Operation. Built-in Barometric pressure sensor. Also has optional Voice Guide Unit (FVS-2). Dim: 6.3"w x 2.6"h x 1.3"d (head), 5.6"w x 1.8"h x 6"d (body); 4.6 lbs. **CALL/WEB**

Available Accessories: NIF MMFTM350R Nifty mini manual, ADMS350 Programming software w/USB cable, BT4 Bluetooth kit (BH1, BU1, CD40, NC85B), BU1 Bluetooth adapter, CAB1 Charger sleeve for Bluetooth headset, CD40 3hr Bluetooth charge cradle, CT132 20' separation cable, CT133 GPS extension cable for FGPS2, CT135 Clone cable, CT136 GPS antenna adapter, CT140 Packet cable (DIN8-DIN6+DUSB9), CT141 Packet cable (DIN8-DIN6), CT142 Packet cable (DIN8-DUSB9), FEP4 Other earphone for bluetooth, FGPS1 Internal GPS, FGPS2 External GPS, FPR1 Monitor unit, FVS2 Voice guide unit, MLS200M10 Waterproof external speaker, MMB60 Quick release bracket, NC85B Battery charger for CD40

YAESU ACCESSORIES



FP-1030A FP-1023 MLS-100
FP-1023 – 23A Switching PS w/fan... **\$169.99**
FP-1030A – 25A PS w/meters. **\$269.99**
MLS-100 – Mobile Speaker. **\$49.99**

MORE YAESU MOBILE ACCESSORIES
ON PAGE 22 IN PRICE GUIDE

Please call/web for current prices & promotions.

SINGLE BAND HTs

FT-250R 5W 2M FM HT Most of the same features as the old VX-150 except increased AF output; added "Memory Only" mode and replaced the NiCad battery with NiMH. Coverage: 144-148 MHz TX, 136-174 MHz RX. Three power output levels 5/2/0.5W; Wide/Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™; 209

Alpha memory channels; 9 DTMF auto dial memo memory bank and preferential memory scanning; CTCSS & DCS encode/decode; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ function; Die-cast aluminum case; Selectable 400mW or 700mW AF power output; MIL-STD 810D/E. Comes with NiMH battery pack, SMA antenna, wall charger and belt clip. Dim: 2.3"w x 4.3"h x 1"d; 12.4 oz. **CALL/WEB**

Available Accessories: NIF QRFT250 Nifty quick reference card ADMS250 Programming software w/USB cable, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VAC370 Rapid charger, VC25 VOX headset



FT-270R 5W 2M FM HT New replacement for the VX-170. Most of the same features as the previous model except increased audio output and added "Memory Only" mode. A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. 5/2/0.5W selectable output. Receive coverage is from 136-174 MHz and has 200 alpha memory channels that may be partitioned into as many as 10 memory groups. "Memory Only" mode; A 16 key backlit keypad for

direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Loud, 800mW audio for noisy field operations. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with Ni-MH battery, flexible SMA antenna, wall charger and belt clip. Dim: 2.4"w x 4.7"h x 1.3"d; 13.8 oz. . **CALL/WEB**

FT-277R 5W 440 MHz FM HT – Same but 430-450 MHz TX and 420-470 MHz RX. **CALL/WEB**

Available Accessories: NIF QRFT270 Nifty quick reference card (FT-270R only), ADMS270 Programming software w/USB cable (FT-270R only), ADMS277 Programming software w/USB cable (FT-277R only), CD26 Charger cradle, CN3 BNC-SMA adapter, CT91 Mic adapter, EDC5B DC adapter/filter, EDC6 DC plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH57A4B Speaker mic, MH73A4B Submersible speaker mic, NC88B Extra wall charger, VAC370 Rapid charger, VC24 VOX headset, VC27 Earpiece/mic

DUAL BAND HT

FT-60R 144/440 MHz FM Dualband FM HT – Covers 108-520 and 700-999 MHz (cell blocked) receive. Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W on 144-148 and 430-450 MHz; 1000+ memories with alpha-tags; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code

Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; WIRES™ access key; Auto repeater shift; Auto-Range Transponder System (ARTS™); Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400mAh NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip.

Dim: 2.3" w x 4.3" h x 1.2" d; 13 oz..... **CALL/WEB**

Available Accessories:

NIF QRFT60R Nifty quick reference card, ADMS1J Windows software w/USB cable, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker/mic adapter, EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA25 6 AA cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH34B4B Speaker mic, MH37A4B Earpiece & mic, NC88B Extra wall charger, VAC370 Rapid charger, VC25 VOX headset



MICRO DUAL BAND HT

VX-3R Compact 144/440MHz Dual Band FM HT Covers 144-148 MHz and 430-450 MHz with wideband receive from 500 kHz to 999 MHz (cell blocked). Includes AM/FM/NFM/WFM modes so you can hear the AM, short-wave and FM broadcast bands, aircraft and public service channels. 1000 alpha memory system with special memory banks for Weather, Broadcast, VHF Marine and

Shortwave Broadcast. The sub-RX feature allows listening to AM or FM broadcast stations while monitoring a HAM frequency which you can talk on instantly by hitting the PTT button. Power output with the supplied 1000 mA hour Lithium-Ion battery is 1.5W (VHF) and 1W (UHF). Using the optional EDC-21 DC adapter output increases to 3W (VHF) and 2W (UHF). Rugged aluminum die-cast chassis. CTCSS/DCS Encode/Decode with split tone capability; DTMF; Messaging; AM Band Bar Antenna; WIRES™-II Internet Key; Automatic In-Range Transponder System (ARTS); FM Stereo Earphone jack; CW Learning and Training; Mechanical Dial Lock; Internal temperature sensor. Comes with the FNB-82LI lithium-ion battery, NC-85B charger and SMA flexible antenna.

Dim: 1.9" w x 3.2" h x 0.9" d; 4.6 oz..... **CALL/WEB**

Available Accessories:

NIF QRVX3R Nifty quick reference cards, ADMSVX3 Programming software w/USB cable, CN3 BNC-SMA adapter, CSC92 Soft case, CT27 Cloning cable, CT44 Two pin mic adapter (for older Yaesu mics), EDC21 Cigarette lighter adapter, FBA37 Cell Holder (3 x AA), FNB82LI 3.7V 1000 mAh Lithium Ion battery, MH34B4B Speaker mic, MH37A4B Compact lapel mic with earphone, VC25 VOX/PTT headset



TRI BAND HT

VX-6R 144/220/440 MHz FM Triple band Submersible HT – 5W power on 144/440 MHz and 1.5W on 220 MHz; Wide receive coverage: 500 kHz to 998.990 MHz (cell blocked); 900 alpha memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off!

Emergency Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 220 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1500mAh Li-Ion battery, NC-72B battery charger, flexible SMA antenna, belt clip, hand strap.

Dim: 2.3" w x 3.5" h x 1.1" d; 9.5 oz.... **CALL/WEB**

Available Accessories:

NIF QRVX6R Nifty quick reference card, ADMSVX6 Programming software, CD15A Charger stand for NC72B, CN3 BNC-SMA adapter, CSC91 Soft case, CT91 Mic adapter, EDC5B Cigarette lighter adapter, EDC6 DC adapter/plug/wire only, FBA23 2 AA cell battery case, FNB80LI 7.4V 1500mAh lithium-ion, MH57A4B Speaker/mic, MH73A4B Submersible speaker mic, NC72B Extra wall charger, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic



QUAD BAND HTs

VX-7R Ultra-Rugged, Submersible Magnesium FM HT – Quad-band HT With a full 5W FM output on 50, 144 and 440 MHz, 300mW FM output on 220 MHz band. The unit is submersible at 3 ft. for 1/2 hour and meets JIS-7 specification. 500 kHz to 999 MHz receive (cell blocked); Over 900 memories including 40 memory scan band limit and 10 weather channels; Built-in CTCSS/DCS encode/decode; "Split

Tone" capability; Auto-Range Transponding System (ARTS) uses DCS signaling to provide a "handshake" between two ARTS equipped radios to verify communication range; Full-color strobe LED; Spectrum scope display; On/Off timers; WIRES™ internet-linking; Optional barometric pressure sensor (SU-1) helps monitor sudden weather changes. Comes with FNB-80LI 7.4V 1500mAh lith-ion battery, battery charger, dual section belt clip.

Dim: 2.4" w x 3.5" h x 1.1" d; 9.2 oz.... **CALL/WEB**

Available Accessories:

NIF QRVX7R Nifty quick reference card, ADMS1G Programming software w/USB cable, CD15A Rapid charger for NC72B, CN3 BNC-SMA adapter, CSC88 Soft case, CT91 Mic. adapter, EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA23 2 "AA" battery case, FNB80LI 7.4V 1500mAh lith-ion, MH57A4B Speaker/mic, MH73A4B Submersible speaker mic, NC72B Extra wall charger, Q3000185 Replacement duck, SU1 Altitude/barometric sensor, VC24 VOX headset, VC27 Earpiece/mic

Please call/web for current prices & promotions.



VX-8R Ultra-Rugged, Submersible APRS® FM HT – Full 5 watts FM on 50/144/430 MHz plus 1.5 watts FM on 220 MHz. Wideband receive 500 kHz to 999.990 MHz (cell blocked). Over 1200 memory channels! It supports Bluetooth hands-free operation with the optional Bluetooth kit. There is also an optional GPS unit and antenna with loads of features. This radio supports APRS® 1200/9600 bps data

communication (B band only). The VX-8R is submersible and meets IPX57 specifications (3 feet for minimum of 30 minutes). A powerful 7.4V 1100 mAh Li-Ion battery is included. Dual Ham band Operation (V+V/U+U/V+U) while listening to AM/FM Broadcasts. WX receive with Weather Alert. A barometric & temperature sensor is included. High-resolution Spectrum Analyzer with ±60 channels indication with wave monitoring of received/modulated signal! And DCS/CTCSS encode & decode is standard. Contact Yaesu at 714-827-7600 to upgrade your VX-8R to VX-8DR if desired. **C/O CALL/WEB**

VX-8DR – More APRS® features including: Smart Beacons™ that plots a smoother trace to match your position and movement on a map; Station List memories increased from 40 to 50; APRS® Message memories increased from 20 to 30; DIGI-PATH route indication function: The APRS® Packet data includes Digipeater info; Heads up compass display to the GPS Screen; Message Received LED flashing rate is selectable; DIGI-PATH route settings increased from 1 to 7. Dim: 2.36" w x 3.74" h x 0.92" d; 8.5 oz. **CALL/WEB**

Available Accessories:

NIF MMVX8R Nifty mini manual & reference card combo (VX-8R only), NIF MMVX8DR Nifty mini manual & reference card combo (VX-8DR only), ADMSVX8 Programming software w/USB cable (VX-8R & VX-8DR), BTK4 Bluetooth kit (BH1, BU1, CD40, NC85B), BU1 Bluetooth radio adapter, CD40 3 hour bluetooth charge cradle, CD41 Rapid charge cradle, CN3 BNC-SMA adapter, CSC93 Soft carrying case, CT131 Mic plug adapter, CT134 Cloning cable, CT136 GPS antenna adapter, EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA39 3 "AA" battery case, FEP4 Other earphone for bluetooth, FGP52 GPS antenna unit, FNB101LI 7.4V 1100mAh lith-ion, FNB102LI 7.4V 1800mAh lith-ion, MH74A7A Waterproof speaker/mic, NC85B Battery charger for CD40, Q3000185 Replacement duck

DUAL BAND w/GPS

VX-8GR 144/440 MHz FM Dualband HT w/GPS 144/440 MHz Dual Band Transceiver with the GPS unit and antenna built-in; Waterproof; APRS Ready with Smart Beacons; Wide Band Receive for 108-999 MHz (cellular blocked). Has the same APRS features as the VX-8DR listed above. The VX-8GR is not compatible with Bluetooth.

Dim: 2.4" w x 3.7" h x 1.1" d; 8.8 oz..... **CALL/WEB**

Available Accessories:

NIF MMVX8GR Nifty mini manual & reference card combo, ADMSVX8GR Programming software w/USB cable, CD41 Rapid charge cradle, CN3 BNC-SMA adapter, CSC95 Soft carrying case, CT143 RS-232 PC cable, CT144 Cloning cable, CT44 2 Pin speaker/mic adapter (for older Yaesu mics), EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA39 3 "AA" battery case, FNB101LI 7.4V 1100mAh lith-ion, FNB102LI 7.4V 1800mAh lith-ion, MH34B4B Speaker/mic, MH37A4B Earpiece/mic



HF RADIOS

MAUFACTURER MODEL	ICOM IC-706MkIIg*	ICOM IC-7000*	ICOM IC-718	ICOM IC-7200	ICOM IC-7600	ICOM IC-7700	ICOM IC-7800	ICOM IC-9100 ⁽⁹⁾	KENWOOD TS-2000, TS-B2000 TS-2000X	KENWOOD TS-480HX* TS-480SAT*	KENWOOD TS-590S ⁽⁹⁾
BANDS	HF, 6M 2M, 70CM	HF, 6M 6/2M, 70CM	HF	HF, 6M 6M	HF, 6M 6M	HF, 6M 6M	HF, 6M 6M	HF, 6M, 6/2M 70CM, 1.2GHz ⁽⁸⁾	HF, 6M, 2M 70CM, 1.2GHz*	HF, 6M 6M	HF, 6M 6M
RX RANGE (Mhz)	0.03-200 400-470	0.03-199 400-470	0.03-30	0.03-60	0.03-60	0.03-60	0.03-60	0.03-60, 136-174 420-480	0.03-60, 142-152 420-450	0.03-60	0.13-60
POWER (SSB/CW/FM)	5-100 HF/6M 5-50 2M 2-20 70CM	2-100 HF/6M 2-50 2M 2-35 70CM	5-100W ⁽⁴⁾	2-100W ⁽⁴⁾	2-100W	5-200W	5-200W	2-100W HF/6/2M 2-75W 70CM TBD 1.2GHz ⁽⁸⁾	5-100W HF/6/2M 5-50W 70CM 1-10W 1.2GHz*	5-200W (HX) 5-100W (SAT)	100W
POWER (AM)	2-40W HF/6M 2-20W 2M 2-8W 70CM	1-40W HF/6M 2-20W 2M 2-14W 70CM	2-40W	1-40W	1-30W	5-50W	5-50W	2-25W	5-25W HF/6/2M 5-12.5W 70CM 1-2.5W 1.2GHz*	5-50W (HX) 5-25W (SAT)	5-25W
DSP	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	YES	YES	YES - HF/6M	YES	NO (HX), YES (SAT)	YES
KEYER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	OPTIONAL	YES	OPTIONAL	YES	YES	YES	YES	YES	OPTIONAL	OPTIONAL	OPTIONAL
VOX	YES	YES	YES	YES	YES	YES	YES	TBD	YES	YES	YES
POWER REQUIREMENT	12VDC 20A	12VDC 22A	12VDC 20A	12VDC 22A	12VDC 23A	BUILT-IN	BUILT-IN	12VDC 24A	12VDC 20.5A	12VDC 41A	12VDC 20.5A
ANTENNA PORTS	2 ⁽²⁾	2 ⁽²⁾	1	1	3 ⁽⁷⁾	5 ⁽¹⁾	4	4	5	2	2
COMPUTER PORT	OPTIONAL	OPTIONAL	OPTIONAL	USB	USB	RS-232	RS-232	USB	RS-232	RS-232	USB & RS-232
HEIGHT (IN)	2.3	2.59	3.75	3.75	4.56	5.9	5.9	4.5	3.75	2.4	3.78
WIDTH (IN)	6.6	6.56	9.44	9.44	13.37	16.7	16.6	12.4	10.63	7	10.63
DEPTH (IN)	7.9	7.09	9.4	11.06	11	17.1	17.1	13.5	12.5	10.2	11.46
WEIGHT (LBS)	5.5	5.1	8.4	12.1	22	52.9	55	24.3	17.19	8.15	16.31

- * Removable control head
 * Optional module required for TS-2000, and B versions
 (1) 4 SO-239, 1 BNC
 (2) HF/6M one port, 2M/440MHz second port
 (3) Two ports for HF, one dedicated for 2M

- (4) No FM
 (5) On internal batteries: 20W (10W on 70cm)
 (6) On internal batteries: 5W (2.5W on 70cm)
 (7) Two SO-239 TX/RX, one RCA RX only
 (8) Optional module required for 1.2GHz
 (9) All listed information is preliminary

HF RADIOS

MAUFACTURER MODEL	MFJ 9015	MFJ 9020	MFJ 9030	MFJ 9040	MFJ 9410X	MFJ 9420X	MFJ 9440X	MFJ 9475X	YAESU FT-817ND	YAESU FT-857D	YAESU FT-897D	YAESU FT-450AT	YAESU FT-950	YAESU FT-2000	YAESU FT-2000D	YAESU FTDX-5000 SERIES	YAESU FTDX-9000 SERIES
BANDS	15M	20M	30M	40M	10M	20M	40M	75M	HF, 6M 6/2M, 70CM	HF, 6M 6/2M, 70CM	HF, 6M 6/2M, 70CM	HF, 6M 6M	HF, 6M 6M	HF, 6M 6M	HF, 6M 6M	HF, 6M 6M	HF, 6M 6M
RX RANGE (Mhz)	21-21.2	14-14.075	10.1-10.15	7.0-7.5	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	0.1-56 76-154 420-470	0.1-56, 76-108 118-164 420-470	0.1-56, 76-108 118-164 420-470	0.03-56 0.03-56	0.03-56	0.3-60	0.3-60		
POWER (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	20W SSB PEP	20W SSB PEP	12W SSB PEP	12W SSB PEP	5W SSB/CW/FM	100W HF 50W 2M 20W 70CM	100W HF/6M ⁽⁵⁾ 50W 2M 20W 70CM ⁽⁵⁾	100W	100W	100W	200W		
POWER (AM)	NO	NO	NO	NO	NO	NO	NO	NO	1.5W	25W HF 12.5W 2M 5W 70CM ⁽⁶⁾	25W HF/6M ⁽⁶⁾ 12.5W 2M 5W 70CM ⁽⁶⁾	25W	25W	2-25W	5-50W		
DSP	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
KEYER	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES
VOX	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUIREMENT	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC 1.2A	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	12VDC	50VDC @ 12A 12VDC @ 6A	
ANTENNA PORTS	1	1	1	1	1	1	1	1	2	2 ⁽²⁾	2 ⁽²⁾	1	2	2	2	2	
COMPUTER PORT	NO	NO	NO	NO	NO	NO	NO	NO	CT-62 REQ.	CT-62 REQ.	CT-62 REQ.	YES	YES	RS-232	RS-232	RS-232	
HEIGHT (IN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5W	2	3.14	3.3	4.5	5.3	5.3	5.3	
WIDTH (IN)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.3	6.1	7.9	9	14.4	16.1	16.1	16.1	
DEPTH (IN)	6	6	6	6	6	6	6	6	6.5	9.2	10.3	8.5	12.4	13.8	13.8	13.8	
WEIGHT (LBS)	2	2	2	2	2	2	2	2	2.6	4.6	8.6	7.9	28.7	32	34	34	

See pages 32 & 40 or go to Yaesu's Website:
WWW.YAESU.COM

See pages 33 & 40 or go to Yaesu's Website:
WWW.YAESU.COM

(1) Manufacturer only guarantees specs within the ham bands
(2) There are gaps in non-voice or data portions in certain bands

(3) FT-8900R includes 10M/GM as well
(4) Control head can not be attached to the body
All radios are cellular blocked

Links to Manufacturer's
Websites at aesham.com

SINGLE BAND MOBILES

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	KENWOOD	MFJ	MFJ	MFJ	YAESU	YAESU
MODEL	DR-03T	DR-06T	DR-135TMKIII, DR-135TPMKIII	DR-235TMKIII	DR-435TMKIII	IC-2200H	IC-V8000	ID-1 ⁽⁴⁾	TM-271A	8621X2	9402X	9406X	FT-1900R	FT-2900R		
TX RANGE (MHz)	28-29.695	50-53.995	144-148	222-224.995	430-449.995	144-148	144-148	1240-1300	144-148	144.39	144-144.3	50-50.3	144-148	144-148		
RX RANGE (MHz)	28-29.695	50-53.995	118-174	216-279.995	350-511.995	118-174	136-174	1240-1300	136-174	144.39	144-144.3	50.3	136-174	136-174		
AIRCRAFT RX	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO		
POWER OUTPUT	10/5/1W	50/20/5W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W	7W SSB	10W SSB	55/25/10/5W	75/30/10/5W		
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	NO	NO	YES	YES		
TONE ENCODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES	YES/DCS	NO	NO	NO	YES/DCS	YES/DCS		
TONE DECODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES	YES/DCS	NO	NO	NO	YES/DCS	YES/DCS		
MEMORIES	100	100	100	100	100	207	207	100	200	0	0	0	221	221		
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	YES	YES		
PC PROGRAMMABLE	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	YES	YES		
13.8V DC@	3A	11A	11A	8A	10A	15A	15A	7A	13A	>1A	2A	3A	11A	15A		
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	TYPE-N	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239		
HEIGHT (IN) (HEAD)	1.57	1.57	1.6	1.6	1.6	1.6	2	1.6 (2)	1.7	1.5	2.5	2.5	1.6	2		
WIDTH (IN)	5.85	5.85	5.6	5.6	5.6	5.5	5.9	5.6 (5.9)	6.3	5	6.5	6.5	5.8	6.3		
DEPTH (IN)	6.83	6.83	6.9	6.9	6.9	7.1	5.9	6.5 (1.9)	5.4	5	6	6	5.8	7.3		
WEIGHT (LBS)	2.21	2.21	2.3	2.3	2.3	2.75	2.22	2.6 (0.5)	2.6	0.8	2	2	2.6	4.2		

MULTI BAND MOBILES

MANUFACTURER	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	KENWOOD	YAesu	YAesu	YAesu	YAesu	YAesu	YAesu	YAesu
MODEL	DR-635T	IC-208H	IC-880H	IC-2820H	TM-V71A	TM-D710A ⁽⁴⁾	TM-10SR ⁽⁴⁾	FTM-10SR ⁽⁴⁾	FTM-10SR ⁽⁴⁾	FTM-10SR ⁽⁴⁾	FT-7900R	FT-8800R	FT-8900R	FT-8900R	FT-350R ⁽⁴⁾
TX RANGE (MHz) ⁽¹⁾	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148	144-148
RX RANGE (MHz) ⁽¹⁾	430-450	440-450	430-450	430-450	430-450	438-450	438-450	438-450	438-450	438-450	430-450	430-450	430-450	430-450	430-450
SINGLE OR DUAL RX	DUAL	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	SINGLE	DUAL	DUAL	DUAL	DUAL
POWER (2M)	50/25/5W	55/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	50/20/5W	50/20/5W	50/20/10/5W	50/20/10/5W	50/20/10/5W	50/20/10/5W	50/20/5W
POWER (440 MHz)	35/20/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	40/20/5W	40/20/5W	45/20/10/5W	35/20/10/5W	35/20/10/5W	35/20/10/5W	50/20/5W
MEMORIES	200	500	1052	522	1000	1000	1000	1000	500	500	1000	1000	1000	1000	1000
TONE ENCODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TONE DECODE	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT	YES	NO	NO	YES	YES	YES	YES	YES	NO	NO	NO	YES	YES	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)	1.6	1.6	1.6	1.65 (1.25)	1.7	1.7 (2.8)	1.7 (2.8)	1.7 (2.8)	1.5	1.1 (1.5)	1.6	1.6	1.6	1.6	1.8 (2.6)
WIDTH (IN)	5.5	5.6	5.9	5.9 (5.9)	5.5	5.6 (6.2)	5.6 (6.2)	5.6 (6.2)	4.4	5.1 (4.4)	5.5	5.5	5.5	5.5	5.6 (6.3)
DEPTH (IN)	7.3	7.3	7.8	7.4 (2.6)	7.1	6.3 (2.2)	6.3 (2.2)	6.3 (2.2)	7	3.2 (1.6)	6.6	6.6	6.6	6.6	6 (1.3)
WEIGHT (LBS)	2.2	2.7	2.9	3.3 (0.46)	3.3	2.6 (0.6)	2.6 (0.6)	2.6 (0.6)	2.9	1 (0.5)	2.2	2.2	2.2	2.2	4.6

(1) Folding ant. attached
(2) Comes with AA battery case that gives it 2W output.. Up to 5W with optional 9.6V/650mAh battery or 6W with optional 13.5V DC, power cable.

All radios are cell blocked

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	ICOM	KENWOOD	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	DJ-596TMMKII	DJ-C7T	DJ-V5TH	DJ-G7T	IC-T70A	IC-91A	IC-80AD	IC-92AD	TH-F6A	FT-60R	VX-3R	VX-6R	VX-7RB	VX-8GR	VX-9R / DR
TX RANGE (MHz)	144-148 420-450	144-148 420-450	144-148 438-450	144-148 430-450 1240-1300	144-148 430-450	144-148 420-450	144-148 420-450	144-148 420-450	144-148 222-225 430-450	144-148 430-450	144-148 430-450	144-148 222-225 430-450	50-54, 144-148 222-225 430-450	144-148 430-450	50-54, 144-148 222-225 430-450
	136-174 400-512	88.1-174 380-512	76-999	0.530-1300	136-174 400-470	0.495-999.99	0.495-999.99	0.495-999.99	0.1-1300	108-520 700-999	0.5-999	0.5-999	0.5-999	108-999	0.5-999
SINGLE/MULTI RX	SINGLE	SINGLE	SINGLE	FULL DUPLEX	SINGLE	DUAL	SINGLE	DUAL	DUAL	SINGLE	SINGLE	SINGLE	DUAL	SINGLE	DUAL
AIRCRAFT RX	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER OUTPUT	5W	300mW	5W	5/4.5/1W	5/2.5/0.5W	5W	5W	5W	5W	5W	1.5W (1W/440)	5W (1.5W/222)	5W (300mW/222)	5W	5W (1.5W/222)
MEMORIES	100	200	200	1000	302	1304	1052	1304	435	1000	1000	900	900	1327	1267
TONE ENCODE	YES/DCS	YES	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TONE DECODE	YES/DCS	YES	YES	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS	YES/DCS
TOUCH-TONE PAD	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
ALPHANUMERIC	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE	YES	YES	NO	YES	YES	PC CONTROL	YES	PC CONTROL	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-CAD	LH-ION	NI-CAD	LH-ION	NI-MH	LH-ION	LH-ION	LH-ION	LH-ION	NI-MH	LH-ION	LH-ION	LH-ION	LH-ION	LH-ION
ANTENNA CONN.	BNC	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.9	3.8	3.8	4.5	4.4	4.1	4	4.4	3.4	4.3	3.2	3.5	3.5	3.7	3.74
WIDTH (IN)	2.2	2.3	2.3	2.1	1.2	1.3	2.3	2.3	2.3	2.3	1.9	2.3	2.3	2.4	2.36
DEPTH (IN)	1.6	0.6	1.3	1.1	1.2	1.3	1.3	1.3	1.2	1.2	0.9	1.1	1	1.1	0.92
WEIGHT (OZ)	13.2	3.6	12	9.5	13.4	10.6	10.3	11.2	8.8	13	4.6	9	9	8.8	8.5

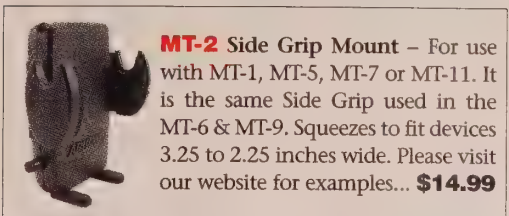


Inexpensive/Convenient Mobile Mounting Solutions for Small Radios and Accessories

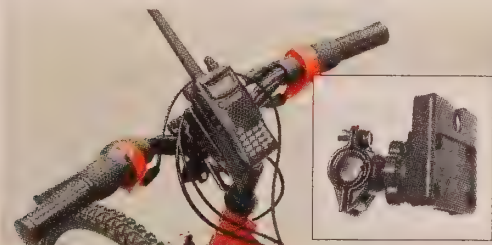
Express Mount: Accepts the button on the back of a hand-held or rotate it 180° to use the radio's belt clip. Also comes with 2 adhesive buttons for other devices.
AMPS: An "industry standard" rectangular hole pattern measuring 1.496 x 1.181 inches on-center with 0.218 in. dia. holes. The plates have 6 mounting holes total.



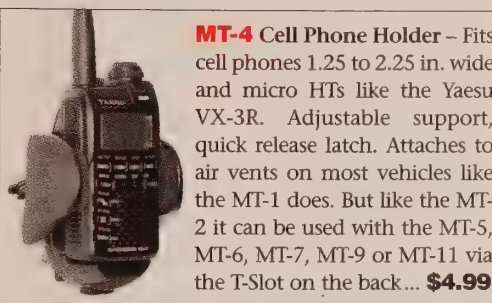
MT-1 Vent Mount for Remote Heads – Has a 4-hole AMPS pattern that attaches to ALINCO, ICOM, KENWOOD and YAESU remote heads. Swivels 360° for optimal viewing and tightens easily with a tightening ring. Installs and removes in seconds. Fits most horizontal vent louvers. **\$14.99**



MT-2 Side Grip Mount – For use with MT-1, MT-5, MT-7 or MT-11. It is the same Side Grip used in the MT-6 & MT-9. Squeezes to fit devices 3.25 to 2.25 inches wide. Please visit our website for examples... **\$14.99**



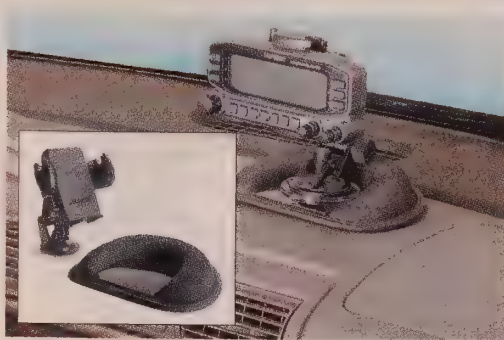
MT-3 Motorcycle/Bike Handlebar Mount with Express Mount – For use with bicycles, motorcycles, golf carts, ATVs, snowmobiles, hang gliders, or any other apparatus having cylinder-shaped frames or posts... **\$19.99**



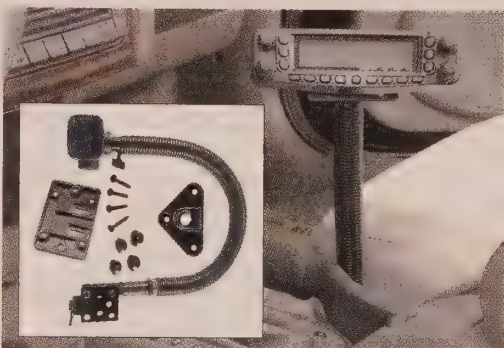
MT-4 Cell Phone Holder – Fits cell phones 1.25 to 2.25 in. wide and micro HTs like the Yaesu VX-3R. Adjustable support, quick release latch. Attaches to air vents on most vehicles like the MT-1 does. But like the MT-2 it can be used with the MT-5, MT-6, MT-7, MT-9 or MT-11 via the T-Slot on the back... **\$4.99**



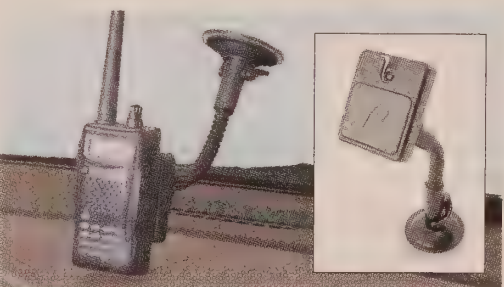
MT-5 Visor Mount with Express Mount
Easy to install, no tools required. Slides on to the visor with ease. **\$24.99**



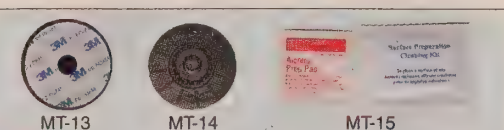
MT-6 Bean Bag with Side Grip Mount – Secure a radio or other device when you can't use a windshield mount. The 7.25" w x 6.25, 1.3 lb. "bag" with non-slip bottom and smooth mounting surface for the suction cup mount holds securely where ever you put it. A rear safety anchor can secure to your dash, etc. for additional stability. **\$29.99**



MT-7 Floor/Seat Bolt Mount – Easy to install, without drilling. Simply loosen a passenger-side seat track bolt, and slide the mount bracket under it. Has a 15 inch gooseneck swivel mounting pedestal that allows positioning for optimal viewing. Comes with a 4-hole AMPS plate that lines up with YAESU and most ALINCO remote heads. ICOM or KENWOOD heads require drilling two additional holes. Plastic tubing can hide the wires... **\$19.99**



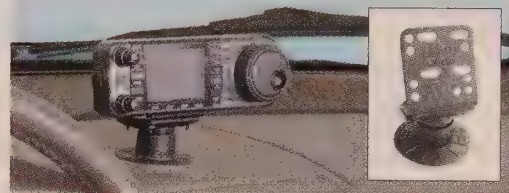
MT-8 Suction Cup Window with Express Mount
The Express Mount is attached to an integrated swivel and can be rotated 360 degrees. Mount any electronic device using a button, leather case or OEM clip. Turning the mount upside down reveals a slot for a belt clip. Use the MT-13 adhesive disc to mount on any flat surface like the dash... **\$19.99**



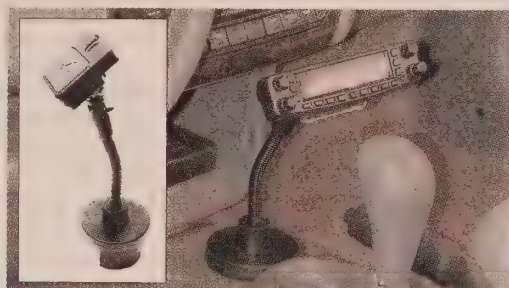
MT-13 – New disc & prep kit for MT-8/MT-9. **\$2.99**
MT-14 – Same kit for MT-10/MT-12. **\$4.99**
MT-15 – Surface Prep Kit Only. **99¢**



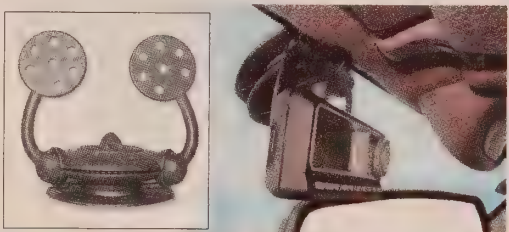
MT-9 Low-Vibration Windshield/Dash Mount with Side Grip Mount – Same as the MT-6 without the bean bag. Includes an adhesive disc to mount on a dash or other flat surface. **\$19.99**



MT-10 Low Profile Dash Mount – Accommodates a variety of devices including hands-free phone cradles, iPod holders, XM satellite radios, GPS units and Ham Radio remote heads. Swivels 30° in any direction, securely holding its position without tightening or locking. Attaches using a strong adhesive mounting pad. Has the AMPS hole pattern and includes an "L" bracket. **\$14.99**



MT-11 Cup Holder Mount with Express Mount
Your vehicle's cupholder is a convenient place to mount your HT or remote radio head. An adjustment wheel on the top of the base allows fitting to cup holders from 2.5 to 3.25 inches. The express mount can accommodate button type mounts a belt clip. To mount a remote control head (like an IC-7000), simply remove the express mount to reveal a plate with a 4-hole AMPS pattern. **\$24.99**



MT-12 The "BUG" Console/Dash Mount – Secures radio control heads for HAM, XM and Sirius radios. Two arms rotate back and forth and pivot in and out which allows mounting to different control heads and hole patterns. Adjusts with a twist of a thumb-screw. Mounts in a variety of locations, even in a hanging position near the rear view mirror. Installs with an adhesive backed mounting pad. **\$14.99**

MFJ Power Supplies & Accessories

Economically Power your Station Equipment and Accessories with one of these MFJ MightyLite™ or Compact Switching Power Supplies!

Small • Super Lightweight • Rugged • No RF Hash or Noise!



4125

4125P

NEW

Lightweight – The 25 Amp *MightyLites™* weigh in at under 4 lbs. which is 4 to 5 times lighter than an equivalent conventional design power supply. The 45 Amp model is just 5.5 pounds! No more hauling around heavy, bulky power supplies.

No RF Hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

Worldwide Versatility – Switchable AC input voltage handles 85-135 or 170-260VAC.



4225MV

Mighty Features – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way heavy-duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual 3 in. illuminated meters monitor load voltage and current. Internal fan cooling.

4125 (left) – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5" w x 2.5" h x 2.5" d; 3.5 lbs. **\$84.99**

4125P – Same, but adds 2 pairs of PowerPole® connectors on the front panel. **\$94.99**

4225MV (center) – 25 Amps max. or 22 Amps continuous. Dim: 5.75" w x 4.5" h x 6" d; 3.7 lbs. **\$99.99**

4245MV (right) – 45 Amps max. or 40 amps continuous. Dim: 7.5" w x 4.75" h x 9" d; 5.5 lbs. **\$149.99**



4245MV

Compacts for QRP



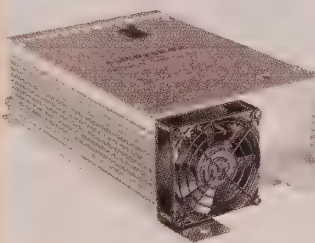
4110

4103

4103 Compact Switching Power Supply – For Yaesu FT-817 or other QRP rigs and MFJ accessories. Input: 100-240VAC, Output: 13.8 VDC @ 2.89 Amps. Over-voltage, over-current, and over-temperature protected. Includes output cable with a 2.1 mm plug and adapter cable for FT-817. Dim: 2.63" w x 1.38" h x 4.13" d; 10 oz. **\$49.99**

4110 Compact AC Power supply – Includes a 2.9 Amp AC wall adapter and 13.8VDC Power Module. Perfect for QRP transceivers. **\$59.99**

AMERITRON 75 Amp Switching Power Supply

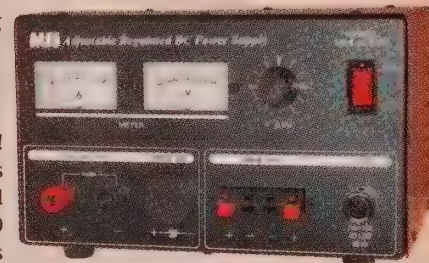


SPS-75 – Power 500W solid-state amplifiers like the AMERITRON ALS-500M and other high current devices. Rated at 75 Amps output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. A quiet thermal-controlled fan keeps it cool. The *Output Boost* feature steps up output voltage from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (11 Amps). Can be used to conveniently charge vehicle and emergency back-up batteries. Dim: 6.5" w x 3.5" h x 10" d; lightweight, 7.8 lbs. **\$359.99**

Conventional 30 Amp Power Supply

- Conventional, non-switching
- Massive 19.2 lb. transformer
- Adjustable 1 to 14 VDC
- Dual front panel meters

4035MV Super Heavy Duty! Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30 Amps continuous (35 Amps maximum) with regulation better than 1% and ripple voltage less than 30mV. Over-voltage, fold back and short circuit protected and variable-speed fan cooled. Plenty of connections – 3 sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, 2 pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories. Dim: 9.5" w x 6" h x 9.75" d; 20.6 lbs. **\$139.99**



AMERITRON

In-Rush Current Protector

Limits initial Power On in-rush current and absorbs momentary voltage spikes.

ICP-120 (110-120V) or **ICP-240** (220-240V) **\$79.99**

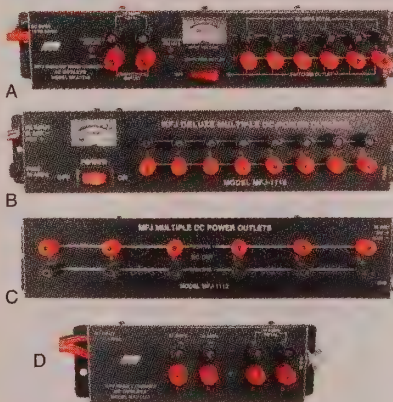


MFJ AC LINE VOLTAGE MONITOR



850B AC Line Voltage Monitor Plug into a wall outlet to monitor AC line voltage. The color coded scale lets you read from 95 to 135V AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75" w x 4" h x 1.1" d. **\$24.99**

MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

1118 (A) Deluxe Multiple DC Power Strip – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V voltmeter, 6 ft. 8 ga. cable. Dim: 12.5" w x 2.75" h x 2.5" d. **\$84.99**

1116 (B) – Like the 1118 but without 30 Amp posts. **\$59.99**

1112 (C) – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5" w x 2.75" h x 2.5" d. **\$44.99**

1117 (D) – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8" w x 2" h x 3" d. **\$64.99**

The Low Cost alternative to those "matching" Power Supplies



Input: 105-125V AC, **Output:** 13.8V DC, Internally adjustable from 11-15VDC.

Solid-state electronically regulated with fold-back current limiting and crowbar overvoltage protection. Heavy-duty heat sink. Three-wire AC power cord and chassis mounted fuse. One-year warranty- made in USA.

RS-20M, 35M, 50M and 70M have separate Volt and Amp meters. VS-20ML, VS-35M and VS-50M have separate V/A meters, plus 2-15VDC voltage adjustment. RM-35M, RM-50M and RM-60M are Rack Mount with separate V/A meters.

MODEL	Cont. Amps	ICS Amps	Dim: h w d (in.)	Shipping weight	PRICE
RS-7A	5	7	3.75 x 6.5 x 9	9#	\$69.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11#	79.99
RS-12A	9	12	4.5 x 8 x 9	13#	89.99
RS-20A	16	20	5 x 9 x 10.5	18#	99.99
RS-35A	25	35	5 x 11 x 11	27#	159.99
RS-50A	37	50	6 x 13.75 x 12	46#	229.99
RS-70A	57	70	6 x 13.75 x 12	48#	299.99

Separate Volt & Amp meters

RS-20M	16	20	5 x 9 x 10.5	18#	129.99
RS-35M	25	35	5 x 11 x 11	27#	179.99
RS-50M	37	50	6 x 13.75 x 11	46#	259.99
RS-70M	57	70	6 x 13.75 x 12	48#	329.99

Adjustable output 2-15VDC; separate Volt & Amp meters

VS-20ML	16	20	5 x 9 x 10.5	20#	149.99
VS-35M	25	35	5 x 11 x 11	29#	209.99
VS-50M	37	50	6 x 13.75 x 11	46#	279.99

Rack mount; separate Volt & Amp meters

RM-35M	25	35	5.25 x 19 x 12	38#	269.99
RM-50M	37	50	5.25 x 19 x 12	50#	319.99
RM-60M	50	55	7 x 19 x 12	60#	429.99

SWITCHING POWER SUPPLIES

- Heavy Duty Design
- Low Profile
- Lightweight



SS-25 - 12V DC, 25 Amps ICS, 20Amps continuous. Dim: 7"w x 3"h x 9.5"d; 4.2 lbs. **\$129.99**

SS-25M - Same as above but with Volt and Amp meters (pictured above). **\$149.99**

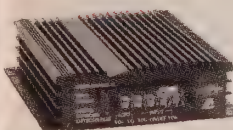
SS-30 - 12V DC, 30 Amps ICS, 25 Amps continuous. Dim: 7"w x 3.75"h x 9.5"d; 4.5 lbs... **\$139.99**

SS-30M Same with Volt/Amp meters... **\$159.99**

POWER INVERTERS

N2412-12 28V Aircraft Converts 22-32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into 28V battery for 12V devices.. **\$59.99**

N2412-24 - Same as above, rated at 20A. **\$89.99**



SS-330W



DAIWA



SS-505

SWITCHING POWER SUPPLIES

SS-330W Regulated, Variable Switching Power Supply - Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; 4.3 lbs..... **\$169.99**

SS-505 Regulated, Variable Switching Power Supply - Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d; 8.4 lbs..... **\$399.99**



DIAMOND ANTENNA SWITCHING POWER SUPPLIES



GZV-4000 Switching Mode DC Power Supply with Built-in Speaker - 120V AC input with variable output 5 to 15V DC (knob has center detent at 13.5V DC), rated at 40 Amps continuous @ 100% duty cycle. Over temperature, overload and short-circuit protection with current foldback at approximately 42 Amps. Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 13"w x 4.5"h x 8.25"d; 8 lbs. . **\$179.99**

GZV-6000 Switching Mode DC Power Supply with Built-in Speaker - Similar to GZV-4000 above but heavier rating. 100-240V AC input; Voltage variable 1-15V DC; 60 Amps; 12.8 lbs. ... **\$369.99**



Light Duty POWER SUPPLY

38-305

Universal AC/DC Adapter - Plugs into outlet. Switchable, converts 115V AC to 3, 4.5, 6, 7.5, 9 or 12V DC @ 500mA. max. Includes seven different DC adapter plugs, including one for Sony products. **\$14.99**



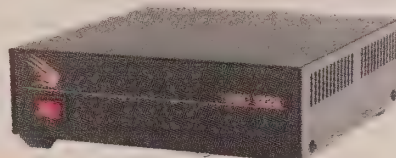
SAMLEX FCP-1000

12V @ 1000mA Adapter/Charger Perfect for operating or charging cell phones and other low current devices. Wall mount with cigar lighter receptacle; 110-120VAC input; 12VDC @ 1000mA output..... **\$7.99**



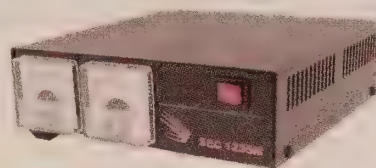
SWITCHING POWER SUPPLIES

The "Power Supply choice of radio manufacturers worldwide"



SEC-1223 23A Switching Power Supply - The perfect lightweight companion for 100 Watt-Class transceivers. Input: 110-120VAC, Output: 13.8VDC @ 23 Amps. UL approved. Also works on 200 to 240VAC input with a simple jumper change. Safety features include current limiting, short circuit and overvoltage protection. Quiet, thermal activated cooling fan.

3-year warranty - "no questions asked" Dim: 7"w x 2.1"h x 7.1"d; 3.3 lbs..... **\$99.99**



SEC-1235M - This unit has the same dimensions as model SEC-1223 above. 100-130VAC, 13.8VDC.

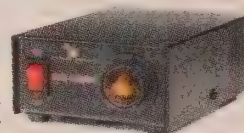
- Best power supply value available today
- 30 Amps continuous, 35 Amps intermittent
- 3 year warranty - "no questions asked"
- Thermal activated fan. No hash
- UL + cUL Safety approved, FCC compliant
- Fully protected - voltage, current, short-circuit
- Perfect for all 100-200 Watt applications

Dim: 7"w x 2.1"h x 7.1"d; 4 lbs. **\$139.99**

SEC-1235 - Same as to 1235M above, but without Volt and Amp meters. **\$119.99**

SPS-1204UL

Switching Power Supply Small and lightweight. Provides highly regulated power to a cigar lighter socket on the front panel and wire terminals on rear. Input: 110-125VAC, 13.8VDC output @ 3.5 Amps. Over-voltage protection and current limiting, illuminated on/off switch, UL and cUL approved. Dim: 4"w x 2"h x 6.3"d; 2 lbs. ... **\$29.99**



SWITCHING POWER SUPPLY

NEW



FRONT - with PowerPoles®

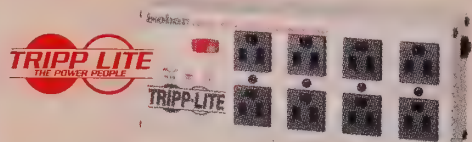


REAR - with Binding Posts

SS-30DV 25A Continuous Switching Power Supply - This small regulated switching power supply features (2) Powerpole® outputs in front and 1/4" binding posts in rear. Machined metal front bezel with illuminated power switch. Input: 100-120 or 200-240 VAC, fused at 6A; Output: 13.8 VDC at 30A maximum up to 5 minutes or 25A continuous operation. Fan cooled, thermal and over-current protected. Dim: 5"w x 2.5"h x 6.1"d; 3 lbs.

Three-year limited warranty! **\$119.99**

POWER LINE SURGE SUPPRESSORS



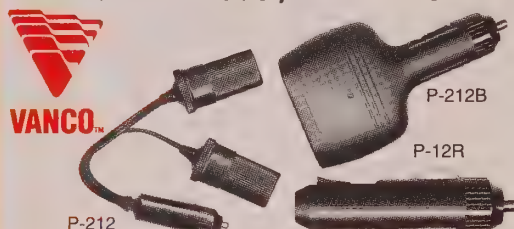
ISOBAR-8 ULTRA Premium Surge, Spike and Noise Suppressor – 8 widely spaced outlets in 4 isolated filter banks provide a massive 1,200 joule, 96,000 Amp spike suppression and isolation between connected equipment. Rugged all metal housing won't break or burn. Diagnostic LEDs confirm power availability, line fault and protection status. Lighted On/Off switch and 15 Amp circuit breaker. Includes 12 ft. AC line cord with space-saving angled input plug, keyhole mounting tabs and child safety covers. Dim: 7.25" w x 2.25" h x 3.5" d. **\$79.99**



SUPER-7 Protect it™ Surge Protector – 7 outlets including 3 transformer outlets. 2350 joule rating, handles strongest surges. On/Off switch, circuit breaker, "Connected" & "Grounded" LEDs, 7 ft. cord with right angle plug. **\$19.99**

SUPER-7+TEL – Same, but with additional surge protection for modem, fax or telephone. **\$29.99**

POWER PLUGS / ADAPTERS



P-212 2-Outlet Cigarette Plug Adapter – Allows use of two 12V accessories from 1 outlet. ... **\$4.99**

P-212B Dual Cigarette Socket – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse. **\$8.99**

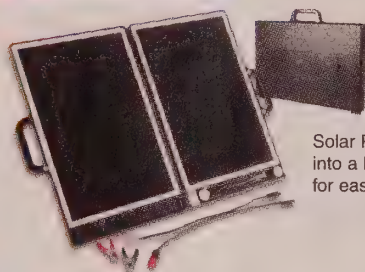
P-12R 2-Contact Cigarette Plug – Solder type with strain relief and grip end. **\$2.99**

P-12V Cigarette Plug – Cigarette lighter plug similar to 12R but with connecting leads. **\$2.99**

P-12X Cigarette Lighter Plug – Easy to use solderless plug. Wires crimp to terminals. C/O **\$1.99**



SOLAR PANEL



Solar Panels fold into a briefcase for easy transport

SOL-8 Compact 13W Solar Charger (Briefcase Design) – The portable charging power for 12V batteries and the waterproof design makes it perfect for camping or boating. Features detachable connectors (male and female cigarette outlets & battery clamps) for different applications. Also has blinking charging indicator and adjustable back support. Power: 13W max; Working voltage: 17.5V; Working current: 750mA; Dimensions: 20.1" w x 26" h x 1.6" d (unfolded); 9.7 lbs. **\$149.99**

RECHARGEABLE AA BATTERIES

MAHA Rechargeables

MH-R-AA4 – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case. **\$16.99**

MFJ Rechargeables

92AA01 – NiMH AA's each **\$3.49**

92AA10 – Same as above 10-pack **\$29.99**

REPLACEMENT PACKS

MAHA's replacement battery packs can increase your handheld's performance up to two times.



For ICOM Handhelds

MHBP-173 9.6V 650mAh NiMH. **\$69.99**

MHBP-180 7.2V 1000mAh NiMH. **49.99**

MHBP-200 9.6V 680mAh NiMH/clip. **59.99**

MHBP-7 13.2V 1000mAh NiMH. **69.99**

MHBP-8 8.4V 1300mAh NiMH. **59.99**

For YAESU Handhelds

MHFNB-12 12V 1000mAh NiMH. **\$49.99**

MHFNB-17 7.2V 1000mAh NiMH. **49.99**

MHFNB-27 12V 1000mAh NiMH. **49.99**

MHFNB-38 9.6V 650mAh NiMH. **59.99**

MHFNB-41 9.6V 1000mAh NiMH w/clip. **55.99**

MHFNB-58LI 7.4V 1200mAh Li-POL. **59.99**

MHFNB-80LI 7.4V 1500mAh Li-ION. **59.99**

MHFNB-83 7.2V 2000mAh NiMH. **59.99**

For KENWOOD Handhelds

MHPB-32 6V 1000mAh NiMH. **\$39.99**

MHPB-34 9.6V 1000mAh NiMH. **57.99**

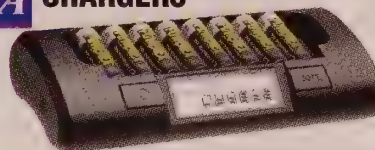
MHPB-39 9.6V 1050mAh NiMH/clip. **59.99**

MHPB-39H 6V 1800mAh NiMH/clip. **59.99**

MHPB-42LI 7.4V 1800mAh Li-POLYMER. **59.99**

MHPB-8 12V 1300mAh NiMH. C/O **14.99**

MAHA CHARGERS



MH-C801D Eight Cell One-Hour Charger

Features eight independent circuits that charge one to eight AA or AAA batteries in any combination. A large LCD screen displays the charging status of each battery (charge, done, conditioning, etc). Choose between a soft charge and fast charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older, lower capacity batteries. Fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. Conditioner will charge, deep-discharge and recharge batteries automatically. Includes a 110-240V switching power supply. **\$84.99**

MH-C9000 WizardOne Charger & Analyzer

Charges, conditions, analyzes, cycles, forms and discharges (1) to (4) AA or AAA NiMH or NiCD batteries. Digital display of capacity and voltage on LCD screen. Standard charging, conditioning and discharging, plus "Break-In" mode performs a "forming" charge designed to properly break-in new batteries. "Cycle" mode allows user to charge and discharge batteries consecutively for up to 12 cycles. Independent negative delta V, temperature and timer protection eliminates over and undercharging. Light weight and small. Worldwide 100-240V switching adapter. Also works with 12V in a vehicle when used with a cigarette lighter adapter. **\$69.99**



MFJ Intelligent Charger

633 Charges (2) or (4) NiCad and NiMH AAA, AA, C, D size batteries and (1) or (2) 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. A Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. Operates on 120 VAC or 12 VDC. **\$29.99**

West Mountain Radio
RIGrunner

A convenient and safe way to connect to a 12V DC source and distribute it to all your equipment, base or mobile. No binding posts, frayed wire connections, black tape or short circuits. Eliminates wall warts.

- Uses Anderson PowerPole® crimp or solder connectors to provide a safe secure, hot connect, polarized, color keyed, genderless connector system
- 5 models, conservatively rated at up to 80 amps
- Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status



RR/8012/C Intelligent DC Power Panel, 12 Outlets, 80 Amps maximum – Voltage monitor and alert, detachable 6 ft. 8 ga. supply cable and 12 pair of Anderson Powerpole® crimp or solder connectors. Dim: 11.8" w x 2.7" h x 1" d. **\$159.99**

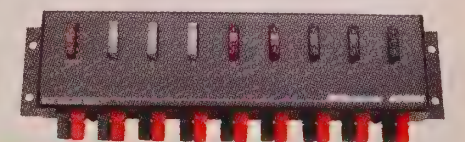


RR/4010S/C DC Power Panel, 10 Outlets, 40 Amps maximum – One "always on" outlet and nine automatic or manually-controlled switched outlets. An On/Off system can control your entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. supply cable and 12 pair of Anderson Powerpole® connectors. Dim: 11.8" w x 2.7" h x 1" d. **\$149.99**



RR/4012/C Intelligent DC Power Panel, 12 Outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage; LEDs and audio alert for over/undervoltage. Includes 6 ft. power supply cable with 12-pair of Anderson Powerpole® connectors. Dim: 11.8" w x 2.7" h x 1" d. **\$129.99**

RR/4008/C 8 Outlets, 40 Amps maximum – Has LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12-pair Anderson Powerpole® crimp or solder connectors. Dim: 5.75" w x 2.7" h x 1" d. **\$119.99**



RR/4008H/C – Basic DC power panel with 8 outlets on the side for horizontal mounting. **\$109.99**

Continued next page

West Mountain Radio

RR/4005/C

5 Outlets, 40 Amps maximum - A DC power panel for small mobile installs or as expansion for existing panel. Includes 6 ft. supply cable and 6-pair of Anderson Powerpole® connectors. Dim: 5.75" w x 2.7" h x 1" d. **\$84.99**

RR/4005H/C - Like the 4005/C but has the outlets on the side rather than the top. For tight installations like under seat or behind dashboard. **\$84.99**

RR/4004/USBC

Four Powerpole® outlets & two USB sockets to power or charge 5-Volt devices such as cell phones, MP3 players, PDAs and digital cameras with USB type-A charging cable. **\$94.99**

Anderson PowerPoles®

C30/PK/12
C45/PK/12



C30/PK/12 - 30A PowerPoles®.. 12 pair **\$12.99**
C45/PK/12 - 45A PowerPoles®.. 12 pair **\$17.99**

PWR/TOOL Powerpole® Crimp Tool - Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps. **\$39.99**

PG-40S Super PWRgate

Backup Power System
During an AC power failure will instantly switch connected equipment to a back-up source. Can supply up to 40 Amps continuously from either a power supply or a battery, which is kept charged by the built-in charger. Optimized for use with Gelled & AGM type batteries, but will keep flooded lead acid and marine type batteries charged as well. The Super PWRgate and the power supply may also be used to charge a battery that is powering the radio. Output is via 40 Amp Anderson Powerpole® connectors (not supplied). Dim: 5.25" w x 1.65" h x 3.9" d; 0.9 lbs. **\$139.99**



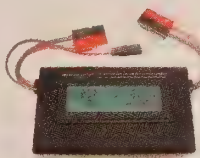
ISO/PWR Auxiliary

12V Battery Isolator
Prevents your vehicle's battery from discharge due to communications equipment. Connects the vehicle's battery system to an auxiliary battery. Equipment powered from the auxiliary battery never drains the vehicle's battery. When the engine is running the auxiliary battery is recharging. Also while the engine is running the alternator is supplying power to the equipment. 40A max. **\$79.99**



WHAT/MTR

- Connects directly into any Powerpole® equipped circuit. LCD shows Volts, Amps, Amp/hours and Watts - simultaneously. Dim: 3.8" w x 2.1" h x 0.9" d. **\$74.99**



RT-1 RigiTalk USB to serial

converter with TTL output Allows USB serial control or programming of any radio with a TTL level interface, CAT or CI-V system... **\$54.99**



CATMINI/CBL Yaesu Cable for RT-1.... **\$13.99**

CIV/CBL ICOM/TEN-TEC Cable/RT-1.... **\$9.99**

powerwerx

DC Power Connections



HF4-PP (A) - New HF 4-pin connector (IC-7000, FT-450 & FT-950) to Powerpole® adapter. **\$15.99**

HF6-PP (B) - Adapts OEM Molex type 6-pin connector to Powerpole® adapter, 5 in. long. **\$15.99**

HF6SOC-HF4 (C) - Adapts Molex-type 6-pin female socket to new HF 4-pin connector. **\$15.99**

BY-T Splitter (D) - Tap into your factory cable and get Powerpole output. Insert a Red-Dee-2™ for easy distribution to other equipment. **\$14.99**

C20-5 Cigarette Lighter Plug (E) - 5 ft. fused (15 Amp AGC) to OEM-T Male plug. **\$14.99**

C2P-5 Cigarette Lighter Plug (F) - 5 ft. fused (15 Amp AGC) to Powerpole®. **\$14.99**

P20-5 (G) - 5 ft. Powerpole® to OEM "T" Male connector, 15 Amps. **\$14.99**

SOC-PP (H) - 1 ft. Cigarette Lighter Socket, internal ATC 15 Amp fuse, Powerpole® end. **\$14.99**

PSC-1038 (I) - 6 ft., 10 gauge Power Supply Cable with 45 Amp Powerpoles® and 3/8 inch gold plated Ring terminals. **\$13.99**

PSC-1014 (J) - Same as PSC-1038 but 1/4 inch gold plated Ring terminals. **\$13.99**

RGH-10 (J) - ATC-style 10 gauge fuse holder with 45 amp Powerpoles® mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 40 Amp ATC fuses. **\$14.99**

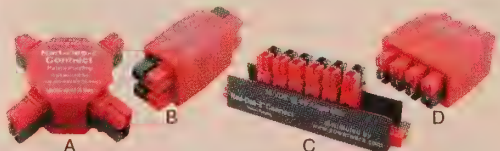
RGH-12 (J) - ATC-style 12 gauge fuse holder with 30 Amp Powerpoles® mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 15 Amp ATC fuses. **\$12.99**

PPH-10 (K) - ATC-style 10 gauge fuse holder with 45 amp Powerpoles® mounted on each end. Includes (2) 40 Amp ATC fuses. **\$14.99**

PPH-12 (K) - ATC-style 12 gauge fuse holder with 30 amp Powerpoles® mounted on each end. Includes (2) 15 Amp ATC fuses. **\$12.99**

EX-145 (L) - 5 ft. 14 ga. extension cable with Powerpoles® on each end. **\$7.99**

110G685 Retention Clips (M) - Clip on to secure PP15/30/45 Powerpoles.. (Bag of 5) **\$2.99**



Red-Dee-2™ Power Splitters

Power distribution when using Powerpole® equipped cables. Convenience, minimum power loss. All are rated at 45A @ 58 VDC. Not fused.

PS-4 (A) **\$17.99** **PS-6AA** (C) ... **\$34.99**

PS-4 Plus (B) **\$17.99** **PS-8** (D) **\$27.99**

powerwerx

Red/Black Bonded Zip cord

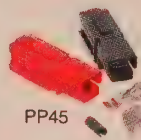
Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding. The automotive grade PVC insulation is oil, gas resistant and usable over a -40°F to 176°F range.



RB-14-25 25 ft. 14 gauge..... **\$14.99**
RB-12-25 25 ft. 12 gauge. **22.99**
RB-12-50 50 ft. 12 gauge. **41.99**
RB-10-25 25 ft. 10 gauge. **34.99**
RB-08-25 25 ft. 8 gauge. **49.99**

PowerPole® Connectors

PP30-10 10 pair 30A. **\$9.99**
PP30-25 25 pair 30A. **19.99**
PP45-10 10 pair 45A. **14.99**
PP45-25 25 pair 45A. **29.99**
PP75-08-2 2 pair 75A, 8ga. **7.99**



PowerPole® Crimpers

CT-2 Crimping Tool for 15, 30 & 75 Amp PowerPoles®. **\$12.99**



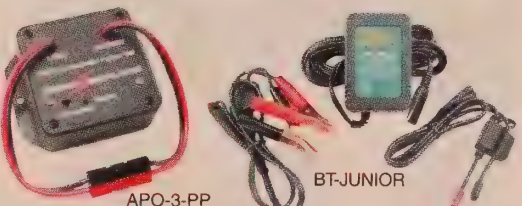
TRICRIMP

TRICRIMP Ratcheting PowerPole Crimp Tool Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps. **\$39.99**



TRIDIES - Expand the functionality of your TRICrimp tool with these additional die sets. Crimp types include: OEM-T; 6, 8 & 10 gauge contacts; Coax connectors; Non-insulated terminals 7-17 AWG; Insulated terminals 10-20 AWG; Insulated terminals and end sleeves 10-22 AWG... **\$54.99**

Miscellaneous Accessories

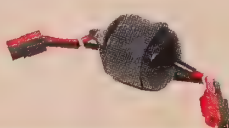
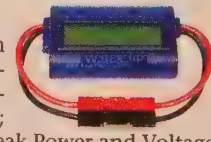


APO-3-PP Automatic Power Off Switch - Prevents vehicle battery discharge by switching your radio off 5, 10 or 20 minutes after the vehicle is shut off. Input: 7 to 20V DC @ 30 Amps. PowerPole® equipped ends. Dim: 4.75" w x 3.3" h x 1.35" d; 5.5 oz. **\$59.99**

BT-JUNIOR Battery Tender Junior Jr. - A 110 VAC to 12VDC @ 0.75 Amp trickle charger that will keep your lead-acid, flooded or sealed maintenance-free batteries fully charged. Four-step charging program: Initialization, Bulk Charge, Absorption and Float modes. Reverse polarity protected, 12 ft. output cord. Dim: 3.3" w x 2.3" h x 1.8" d. **\$23.99**

WATT-BLU-PP-C

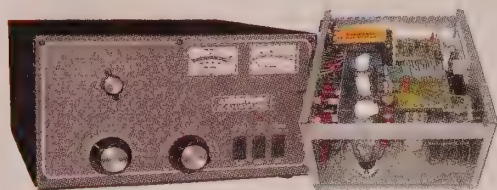
"Watt's Up" Meter - Install in any PowerPole® equipped circuit and measure eight parameters: Amp/hours; Watt/hours; Voltage; Watts; Peak Current; Peak Power and Voltage Sag. PowerPoles® are installed on both ends. **\$59.99**



LF-1-PP DC Noise Filter Reduces TX and RX alternator whine in mobile radios. Rated 20 Amp maximum and 16 Amp continuous. **\$29.99**

AMERITRON HF Power Amplifiers

Coverage: 160, 80, 40, 30, 20, 17 and 15 meters (including MARS & WARC), plus 10 and 12 meters with user modification - *Amateur License required*



AL-811 600W PEP Linear - \$699.99

The first 600 Watts make the difference! GAIN nearly TWO full S-units over your barefoot rig; enough to help compete with the "Big Guns".

Tubes: (3) 811-A's (5-second warm-up)
Plate Voltage & Current: 1500 VDC, 550 mA.
Drive: 60W (typical for full output)
Power Output: 600W PEP/SSB, 400W CW, 300W RTTY/SSTV/FM (1/2-hour, continuous)
AC Input: 120 VAC @ 8 Amps
Power Supply: 17 lb. high silicone steel core transformer and computer grade capacitors. User selectable for 100/110/120/220/230/240 VAC operation.
Dual Illuminated Meters: HV, Grid & Plate Current
Dim: 13.75" w x 8.25" h x 15.5" d; 32 lbs

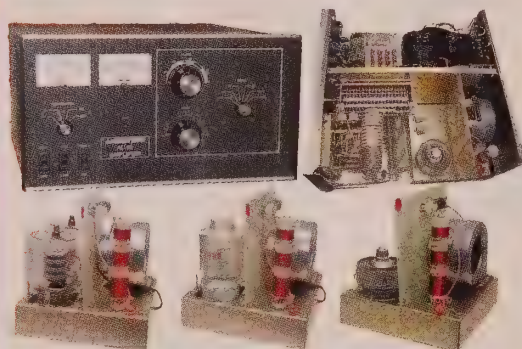
AL-811H 800W PEP Linear - \$849.99

Uses four 811A in a fully neutralized output circuit to kick performance up a notch.

Same as the AL-811 except:
Tubes: (4) 811A
Plate Voltage & Current: 1500 VDC, 650 mA.
Drive: 75W (typical for full output)
Power Output: 800W PEP/SSB, 600W CW, 400W RTTY/SSTV/FM (1/2-hour, continuous)
AC Input: 120 VAC @ 10 Amps

Super Legal Limit Amplifiers

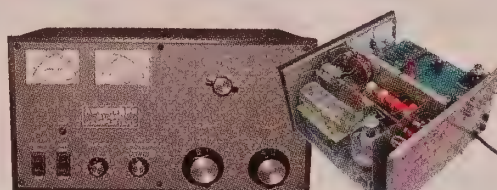
Three RUGGED models with the same look and features, but with a choice of RF Decks.



AL-82 (2) 3-500Z's AL-1200 3CX-1200A7 AL-1500 3CX-1500/8877

Output: Legal limit - all modes
Drive: 65-100W for full output (varies with model)
Plate Voltage & Current: 3300 VDC, 800-1000 mA
AC Input: 240 VAC @ 13 Amps (4 voltage ranges)
Power Supply: Super HD with 32 lb. *Hypersil*® transformer, (20) 1000 V @ 3 Amp rectifiers, computer grade capacitors, and HD bleeders, 2,500W rating
Dim: 17" w x 10" h x 18.5" d; 77 lbs

Models:
AL-82 w/(2) Graphite Plate 3-500Z - **CALL/WEB**
AL-1200 w/Eimac® 3CX-1200A7 - **CALL/WEB**
AL-1500 w/Eimac® 3CX-1500/8877 - **CALL/WEB**



AL-80B 1000W PEP Linear - \$1399.99

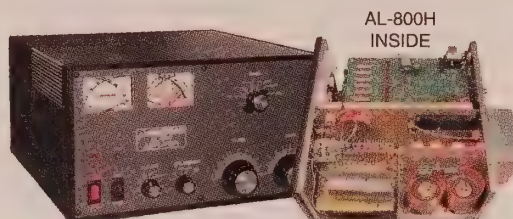
Doubles your average SSB power output with high-level RF processing using Ameritron's Dynamic ALC™. Instantaneous RF Bias™ feature reduces idle current between words; runs cooler, saves energy. Lexan over aluminum front panel

Tube: Graphite Plate 3-500Z (5-second warm-up)
Plate Voltage & Current: 2700 VDC, 450 mA
Max. Drive: 100W (85W typical for full output)
Power Output: 1000W PEP SSB, 800W CW, 500W input RTTY/SSTV/FM (1/2-hour, continuous)
Dual Illuminated Cross-Needle Meters: HV, Grid/Plate Current, Forward/Reflected Power, SWR, ALC
AC Input: 120 VAC @ 12 Amps

Power Supply: 26 lb high silicone steel core transformer and computer grade capacitors. Select from 14 different primary line voltages.

Step/Start: *In-Rush Protection*™ start-up sequence protects against AC line in-rush current.

Dim: 14.5" w x 8.5" h x 15.5" d; 48 lbs



AL-800H INSIDE

AL-800 1250W PEP Linear - CALL/WEB

Uses a single Eimac® 3CX-800A7 to provide Near Legal Limit performance on your Desktop

Tube: (1) Eimac® 3CX-800A7 (180-sec. warm-up)
Plate Voltage & Current: 2300 VDC, 1000 mA
Max. Drive: 100W (70W typical for full output), 50Ω tuned input, resistor attenuated
Power Output: 1300W PEP SSB, 1000W CW, 750W input RTTY/SSTV/FM (1/2-hour, continuous)
Dual Illuminated Cross-Needle Meters: HV, Grid/Plate Current, Forward/Reflected Power, SWR, ALC
AC Input: 120 VAC @ 12 Amps

Power Supply: 32 lb, HD grain-orientated high silicone steel core transformer. Select from 14 different primary line voltages.

Step/Start: *In-Rush Protection*™ start-up sequence
Dim: 14.5" w x 8.5" h x 15.5" d; 51 lbs

AL-800H 1500W PEP Linear - CALL/WEB

Adds a second Eimac® 3CX-800A7 for Full Legal Limit performance on your Desktop

Same as the AL-800 except:
Tubes: (2) Eimac® 3CX-800A7's
Max. Drive: 100W (60-70W typical)
Power Output: 1500W+ PEP SSB, 1500W CW, 1000W input RTTY/SSTV/FM (1/2-hour)



AL-572 1300W PEP Linear - \$1669.99

Near Legal Limit™ Desktop SSB Power for about 65% of the cost of a full legal limit amplifier

Tubes: (4) 572B (3-second warm-up)
Plate Voltage/Current: 2500 VDC, 700 mA
Max. Drive: 100W (85W typical for full output)
Power Output: 1300W PEP SSB, 900W CW
Dual Illuminated Cross-Needle Meters: HV, Grid/Plate Current, Forward/Reflected Power, SWR, ALC
AC Input: 120 VAC @ 16 Amps / 240 VAC @ 8 Amps
Multi-Voltage Power Transformer: 26 lbs, High silicone steel. 14 different primary line voltages.
Step/Start: *In-Rush Protection*™
Dim: 14.5" w x 8.5" h x 15.5" d; 40 lbs

Solid State HF Linears

Instant Bandswitching / No Tune-Up



ALS-500M

ALS-500RC
Optional Remote
Control Head

ALS-600 & PS

ALS-500M 500W PEP Mobile Linear - \$749.99

Output Devices: (4) 2SC2879
Output: 500W PEP SSB, 400W CW
Max. Drive: 100W (60W typical for rated output)
Power Requirement: 14-16 VDC @ 80 Amps Peak
Size/Weight: 3.5" h x 9" w x 15" d, 7 lbs, includes 8 ft. pre-wired power supply cable

ALS-500RC - Remote Head controls all functions remotely for ALS-500M & ALS-1300 - \$49.99

ALS-600 600W PEP Base Linear - \$1299.99

Output Devices: (4) MRF-150
Output: 600W PEP SSB/400W CW
Drive: 100W typical for rated output
Power Requirement: 50 VDC @ 25 Amps Peak provided by the included power Supply.
Dim: 9.5" w x 6" h x 12" d; 30 lbs total

ALS-600S - Same but with ALS-600SPS light weight switching supply, 22.5 lbs - \$1399.99



ALS-1300 1200W PEP Base Linear - CALL/WEB

Devices: (8) MRF-150 Output: 1200W SSB/400W CW
Drive: 100W Dim: 6.5" h x 10" w x 18" d, 22 lbs
Included Switching Power Supply: Amp is wired for 220VAC (can be changed to 110VAC but not recommended). Dim: 10" w x 6.5" h x 9.5" d; 12 lbs

AMERITRON Amplifier Accessories

ATP-100 Tuning Pulser - Pulses your transceiver to safely tune up your RF power amplifier. Prevents overheating, tube damage, power supply stress.... **\$69.99**
ATP-102 Deluxe Tuning Pulser - Similar but with variable pulser and delay..... **\$79.99**

QSK-5 Pin diode T/R Switch - Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW..... **\$369.99**
QSK-5PC - PC board version of QSK-5. **\$279.99**
CF-5 Cooling Fan - for QSK-5. **\$39.99**

ARB-704 Interface Buffer - A must have for Icom Radios! Prevents damage to the radio's internal relay contacts. Compatible with transceivers that provide a ground on transmit.

Use ARB-704I2 for IC-706/7000 only.... each **\$59.99**

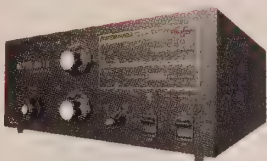
Various "Plug & Play" Interface Cables for Ameritron Amps - See Page 4 in the Price Guide

ALPHA 9500 HF Linear Amplifier



Operates on all Amateur Bands 160-10 Meters (1.8 – 29.7 MHz). Uses a single 3CX1500A7/8877 power triode tube with 1,500W plate dissipation. Requires 45-60 Watts nominal drive to deliver the Full Legal Limit on all bands. 100% carrier, key down; No Time Limit. Automatic tuning. QSK (full break-in) at QRO (full power). Serial port and USB for full remote control capability. Dim: 17.5" w x 7.5" h x 19.75" d; 76 lbs. **DROP SHIPPED \$7950.00**

ALPHA 8410 HF Linear Amplifier



Operates on all Amateur Radio Bands 160 thru 10 Meters (1.8 – 29.7 MHz). Uses (2) 4CX1000A high performance tetrode tubes with a combined plate dissipation of 2,000 Watts. Requires 50-55 Watts nominal drive to deliver the Full Legal Limit on all bands. Manual tuning. Dim: 17.5" w x 7.5" h x 19.75" d; 76 lbs. **DROP SHIPPED \$4995.00**

ALPHA 8406 6 Meter Linear Amplifier



Covers 50 – 54 MHz. Uses a single 4CX1500B tetrode with a plate dissipation of 1500W. Requires 50-55 Watts drive to deliver the full legal limit, no time limit. Dim: 17.5" w x 7.5" h x 19.75" d; 76 lbs.

* This device has not been approved by the F.C.C. This device may not be sold or leased or be offered for sale or lease until approval of the F.C.C. has been obtained.



ALPHA 2100 Dummy Load

Uses a forced-air dry heat sink cooling system capable of dissipating 6,000 watts for 2 to 3 minutes and 1,500 watts continuously. Microprocessor controlled, fans, multiple metering capabilities and full power bypass shunt. Serial port for PC monitoring/control. Dim: 17.5" w x 7.5" h x 19.75" d; 45 lbs. **\$1495.00**

ALPHA Wattmeters



Multi-functional – Displays Forward, Reverse, or SWR on the analog meter while the digital display shows PEP or instantaneous power. Self-contained with no slugs to buy. Each unit is individually factory calibrated over the full frequency range. Choose from 200mW to 3kW or 200mW to 5kW full scale versions. Dim: 8.6" w x 4.7" h x 3.2" d; 9 lbs.

4510 – Covers 1.8-30 MHz with a power range from 200mW to 3kW. **\$945.00**

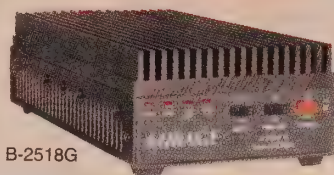
4520 – Same as 4510, also 1.8-30 MHz frequency range, but rated 200mW to 5kW. **\$995.00**

4505 – Same features as 4510 without displays and controls. Data outputs to your PC via a serial cable for metering and control. Range: 1.8-30 MHz, 200mW to 3kW. **\$545.00**

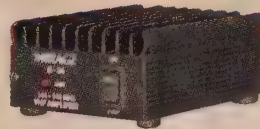
4515 – Same but rated 200mW to 5kW. **\$595.00**

Note: 4510 and 4520 also have PC display capability.

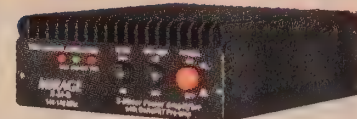
MIRAGE VHF & UHF POWER AMPLIFIERS



B-2518G



B-34



B-34G

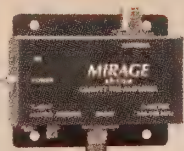
Mobile or Base Operation • Wide range of input and output levels • FM, SSB & CW modes (FM only, some models) • Built-in high-gain low-noise GaAsFET receive preamplifier on several models • Rugged construction, heavy duty heat sink • Protection for high SWR, overdrive and overheating • Remote control capability with optional remote head

Model	Frequency Range	Modes	Power Input	Maximum Output	Volts DC	DC Amps	Pre Amp	AES PRICE
6-Meters								
A-1015G	50-52	SSB/CW/FM	1-15W	150W	13.8	20	Yes	\$359.99
2-Meters								
B-34	144-148	FM	1-8W	35W	13.8	4	No	\$99.99
B-34G	144-148	SSB/CW/FM	1-8W	35W	13.8	4	Yes	109.99
B-1018G	144-148	SSB/CW/FM	0.25-15W	160W	13.8	30	Yes	369.99
B-2518G	144-148	SSB/CW/FM	10-30W	160W	13.8	30	Yes	299.99
B-2530G	144-148	SSB/CW/FM	10-35W	300W	13.8	48	Yes	679.99
B-5018G	144-148	SSB/CW/FM	20-60W	160W	13.8	30	Yes	299.99
B-5030G	144-148	SSB/CW/FM	20-60W	300W	13.8	48	Yes	669.99
B-310G	144-148	SSB/CW/FM	0.25-8W	100W	13.8	15	Yes	219.99
B-320G	144-148	SSB/CW/FM	0.25-50W	200W	13.8	25	Yes	459.99
222-225 MHz								
C-1022G	222-225	SSB/CW/FM	1-10W	220W	13.8	48	Yes	\$699.99
C-2512G	222-225	SSB/CW/FM	1-40W	120W	13.8	25	Yes	309.99
430-450 MHz								
D-1010N	430-450	SSB/CW/FM	0.3-15W	100W	13.8	15	No	\$379.99
D-3010N	430-450	SSB/CW/FM	5-45W	100W	13.8	20	No	349.99
D-1010ATVN	420-450	ATV	1-15W	52W	13.8	20	No	399.99
DUAL BAND (2M/440 MHz)								
BD-35	144/440	FM	0.3-7W	45/35W	13.8	7	No	\$169.99

REPEATER AMPLIFIERS

CONTINUOUS DUTY
all mode FM/SSB/CW for 6 & 2M, 220 MHz & ATV
All Models are Special Order

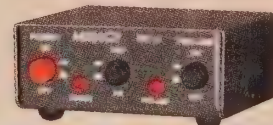
Model	Frequency Range	Power Input	Max Output	Volts DC	DC Amps	AES PRICE
6-Meters						
A-1015R	50-54	3-4W	110W	13.8	16-18	\$529.99
A-1015NR	Same as A-1015R but Type-N connector					549.99
220MHz						
C-211R	223-225	0.3-0.6W	80W	13.8	15-16	\$599.99
C-211NR	Same as C-211R but Type-N connector					619.99
C-1012R	222-235	5W	90W	13.8	16-18 ..	599.99
C-1012NR	Same as C-1012R but Type-N connector					619.99
C-2512R	223-225	13-15W	90W	13.8	13-14 ..	569.99
C-2512NR	Same as C-2512R but Type-N connector					589.99
440 MHz						
D-1010NR	440-450	2-4W	80W	13.8	14-15	\$629.99
D-3010NR	440-450	10-12W	80W	13.8	11-1 ...	599.99
430 MHz (AMATEUR TELEVISION)						
D-1010ATVNR	420-450	2-4W	80W	13.8	14-15	\$629.99



KP-1



KP-2



REMOTE CONTROL HEADS

RC-1 – Remote control for amplifier functions: Power On/Off, Preamp On/Off, SSB or FM mode. Includes 25 ft. control cable. Dim: 3.75" w x 1.75" h x 2.5" d. **\$49.99**

RC-2 – Use with model 5018G, 2518G & 1018G amplifiers. **\$49.99**



Repeater Amplifier

LOW NOISE RECEIVE PREAMPS

High gain ultra low noise GaAsFET preamps boost weak signals on VHF and UHF for improved reception and compensation for feedline loss. Provides 15-22 dB Gain with < 0.8 dB NF. Selectable gain prevents receiver intermodulation. In-line installation, automatic T/R switching up to 160 Watts. In-shack or outside mast mount, type-N connectors. Requires 12-15V DC. Dim: 4.25" w x 2.3" h x 0.9" d

In-Shack Models

KP-1/6M (50-54) **\$139.99**

KP-1/2M (144-148) **\$139.99**

KP-1/440 (430-450 MHz) **\$139.99**

Mast Mount Models

KP-2/6M (50-54) **\$179.99**

KP-2/2M (144-148) **\$184.99**

KP-2/440 (430-450 MHz) **\$184.99**



Microphones and Accessories



It all Starts at the Microphone!

- Heil microphones using the **HC-5 element** will make your rig sound better by providing full articulation and more clarity than a stock microphone. It has a 350-4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak @ 2100 Hz.
- The **HC-4 element** produces super audio clarity with lots of PUNCH ideal for contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where maximum intelligibility is needed. It features a 500-3800 Hz response with a 10dB peak @ 2000 Hz and 12 dB roll-off @ 500 Hz. The result is sharp/narrow sounding audio that does well under difficult conditions, but is not very pleasing for regular QSOs.
- The new **HC-6 element** combines the full SSB-bandwidth of the HC-5 with almost as much articulation as the HC-4, resulting in a transmission that is full of bottom end fidelity with lots of brightness on the high end.
- Heil Dynamic Elements (HC-4, HC-5, HC-6) work well on Icom's IC-756, PROIII, IC-746PRO and IC-7200/7600/7700/7800. The GM-4/5, PR781, ELITE, Pro Set 4/5, BM-10-4/5 and Pro Set Plus are fine and the iCM works great on these rigs too.
- The Icom IC-706 and IC-7000 (for the IC-7000 on SSB only) perform best with the condenser elements found in the Handi-Mic iC, iCM, Pro Set iC and Pro Set Plus iC. If used with the IC-7000 on FM there isn't enough gain available for full deviation. It requires a condenser element, not dynamic.
- The PR-781 is outstanding on the high-end rigs like the Icom IC-746PRO/756PROIII/7600/7700/7800, the Yaesu FT-950/2000/DX-5000/9000 and the Kenwood TS-2000. But is not appropriate for use with the IC-7000, Yaesu FT-817ND, FT-857, etc., as the huge bass response of this microphone tends to overwhelm the mic inputs, resulting in a very bassy sound.
- The higher output iCM Desk Mic connects to the IC-7000, IC-706 and IC-703 using an HSTA-iM adapter cable. The iCM is a direct plug-and-play mate for the IC-718/735/745/746/751/756/761/765/775/7400 and other 8-pin Icom radios.

GM Series

Provides full-range, smooth and articulate audio for AM, FM and "Hi-fi" SSB. The wide 60-16 kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio and adds a well-balanced robust low end. There's a second switch selectable HC-4 or HC-5 element to provide *extra punch* when needed. A "soft touch" microswitch provides smooth, noise-free PTT operation. The die-cast body is finished in high luster black lacquer and topped with a golden grill. Requires a CC-1 adapter cord.

- GM-4** GM with Full Range and HC-4 elements..... **\$139.99**
GM-5 GM with Full Range and HC-5 elements..... **\$139.99**

HM-10-DUAL

HM-10-DUAL The great sounding Heil microphone that has been on the Ham bands for years. The HM-10-Dual has both the HC-5 "Full Range Articulation" element that makes your rig sound better and more intelligible and HC-4 "DX Dream Machine" elements, switch selectable. Requires a CC-1 adapter. **C/O \$128.99**

PRE-PRO ICOM

ICM Built with a special electret condenser element that provides plenty of output, great sound and punch for the older ICOMs with low mic gain. Platinum finish, soft touch PTT switch. Includes an 8-pin ICOM mic. cable..... **\$105.99**

STUDIO

PR-20UT Proline Dynamic Cardoid Microphone - For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz-18 kHz response. Silver grill screen. 5/8" x 27 mount assembly. **\$99.99**

PR-40 Large Diameter Studio Microphone - New element technology with a response from 28-18 kHz with a mid-range rise for nice vocal articulation.. **\$325.99**

PR-781 Proline Dynamic Microphone - Features full-bodied tone quality, with crisp high-frequency articulation. Designed for the IC-7800 but great with the FT-1000MkV, FT-DX9000, TS-2000/870/850, and Icom PRO models. Balanced 600Ω, 3-pin XLR output. Requires CC-1 XLR cable. Black satin epoxy finish. Comes with an SM-3 mount, does not include base..... **\$179.99**

HANDI-MICS

Only 4 in. tall, and the required CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a dash mount holder, boom clip and windscreen.

- HM-IC** with Electret element, for most ICOM rigs and PTT button.. **\$85.99**
HM-PRO with wide range Broadcast element and PTT button. **\$85.99**



BASES, BOOMS & MOUNTS

- CB-1-PTT** Classic Base - With soft PTT switch..... **\$69.99**
TM-1 Tri-Mount - Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation. **\$14.99**
SM-1 Shock Mount - For GM, HM, "iCM" or other 1 in. diameter microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations, gives your station a "studio" look. The 3/8" x 27 threads mount to the PL-2T or other microphone stands and booms. ... **\$72.99**
SM-2B Shock Mount - For PR-20 or other 2 in. diameter mics. **\$95.99**



- PL-2T** "Topless" Pro Studio Boom - Features a perfectly balanced arm with silent internal springs and removable tops that simplify hiding the microphone cord inside the channels. It puts the microphone right where you want it, providing a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones - or for real class, attach a Heil SM-1 Ultimate Shock Mount System. **\$109.99**
SB-2 Small Microphone Boom - Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread microphone mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole. **\$55.99**
DT-1 Desk top Flush Mount - Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top. **\$31.99**
FL-2 Flange Mount - Mounts PL-2T directly to desk top..... **\$25.99**
RS-1 Riser - A 12 in. high flange mount that allows the PL-2T studio boom to mount elevated BEHIND the radio so the boom can be brought down into position OVER the radio. **\$25.99**

ACCESSORIES



See Heil in the Price Guide for Adapter Cables and Accessories





Boomsets



PROSET ELITE

PROSET

PROSET PLUS

PROSET ELITE

The ultimate boomset that will become Heil's *flagship* headset for years to come. Uses the new Heil HC-6 wide response microphone element which is designed for full range bright, articulate audio to cut through noise like the HC-4 while retaining the body of the HC-5. There's the "iC" model with an electret element for ICOM radios. Dual side phones with highly efficient speakers mounted in acoustically tuned chambers with high outside noise rejection. The exclusive Heil Phase Reversal feature allows the user to move the signal acoustically, which creates a spatial widening of the sound field that makes it easier to 'see' a signal inside a pileup while removing listener fatigue during prolonged use. The headphone's speakers fold up for easy transportation and storage. The field-replaceable cushioned ear pads also come with removable cotton covers that can be easily removed for washing. A 6 ft. coiled cable terminates in a 1/8 in. mono plug for the microphone, and there's a stereo 1/8 in. plug for headphone speaker connection. A 1/8 in. to 1/4 in. adapter is also supplied. The PRO SET ELITE works with all available Heil AD-1 adapter cables, which mate with just about every type of amateur radio transceiver.

PSE-6 – with HC-6 Full Range element (requires AD-1 adapter cable)..... **\$159.99**

PSE-iC – with 'iC' element for non-PRO Icom (AD-1 AD-1 adapter cable included). **\$169.99**

PROSET

Boom Microphone/Headset – *Contest and DX'ers choice!* Adjustable headband and full-sized earpieces with heavily-stuffed cushions provide ultimate operator comfort while sealing out noise. A *phase reversal* switch changes the sound from being "centered" in your head, to a spatial widening effect that can significantly improve copy under various conditions. The three versions offer a choice of Heil's HC-4 "DX" element, the HC-5 full-range element, or "iC" condenser element for Icoms. The "iC" version comes with an Icom 8-pin round adapter cable, the HC-4 & 5 require an AD-1 adapter cable.

PRO-SET-4 – with HC-4 DX element. **\$129.99**

PRO-SET-5 – with HC-5 "Full Range" element. **\$129.99**

PRO-SET-iC – with 'iC' Electret element for Icom (AD-1-iC 8-pin adapter cable included). **\$139.99**

PROSET PLUS

Boom Microphone/Headset – Oversized earmuff-type headsets provide superb comfort and 40dB of outside noise seal. The top has rugged but flexible internal steel bands which can be adjusted as you wish. The inner headband is self-adjusting and cushioned for a perfect fit. The microphone boom swings 180° for left or right side operation. Includes dual selectable microphone elements: the Heil HC-5 for normal operation, the HC-4 for DX. Requires AD-1 adapter for Pro-Set-Plus (see Price Guide under Heil). The **Pro Set Plus iC** includes the HC-4 and a high-performance Heil "iC" electret element for Icoms; this model includes an AD-1 "iC" for 8-pin round connectors used on rigs like the IC-7800/781/751 and the PRO series. Great sound from tailored speakers mounted in tuned cavities and wired in a stereo configuration, making them easy to integrate into an SO2R station and ideal for rigs that have a balance control for Main and Sub receiver audio. Phase Reversal switch.

PRO-SET-PLUS ... **\$199.99** • **PRO-SET-PLUS-iC** for Icom (includes adapter cord).... **\$219.99**

BOOMSETS

Boom Microphone/Headset – Lightweight and comfortable for prolonged use. Three versions: the BM-10-4 is supplied with the HC-4 DX element. The BM-10-5 has the HC-5 full-range element. Both require an AD-1 adapter cable. The BM-10-iC utilizes the special Heil "iC" electret element for Icom transceivers and includes an AD-1 adapter cable. The earpiece speakers have frequency response of 60 Hz to 12 kHz.

BM-10-4 with HC-4 DX element. **\$99.99**

BM-10-5 with HC-5 Wide Range element. **\$99.99**

BM-10-iC with 'iC' electret element for Icom, includes adapter cable. **\$119.99**

TRAVELER

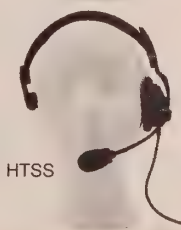
HTDS Boom Microphone/Dual-side Headset – A unique, high-performance headset that's compatible with over 100 different radios. A wide-range electret condenser element provides clarity, and RFI suppression for reliable operation in portable applications where grounding is non-existent. Oversized speakers in the earpieces provide excellent receive audio. A 3-way pendant switch in the Traveler cable provides PTT and frequency Up/Down control. A unique optional interface-cable system consists of a 3 ft. patch cable to mate with your transceiver. Interface cables are also available for interfacing to cellular telephones and personal computers (PTT and frequency control not operational). All adapter cables are sold separately, and you can use one Traveler headset on different rigs just by changing adapter cables. Padded earpieces and headband combined with lightweight allows wearing for hours in complete comfort. Only 6.8 oz.... **\$89.99**

HTSS Boom Microphone/Single-side Headset – The same performance and features of the HTDS but with a single-side earpiece design. **\$69.99**

HSTAYM6 Yaesu FM Mobile Adapter – Interfaces the Traveller HTSS and HTDS with FT-1900/2800/2900 & FT-7800/8800/8900. Not recommended for FT-7900.... **\$23.99**



HTDS



HTSS



Heil Adapter Cables – All Heil products except the iC Icom series (8-pin round) requires an adapter cable specific to your make of radio and connector type. See the Price Guide under Heil for your cable.



HW-20 Heil Wire – A specially-designed cable for connecting microphones, foot switches, keyer paddles, and/or other data or control devices. Two 18-ga. wires inside a 100% silver-plated braid shield, plus two 18-gauge. wires for PTT, etc. Flexible PVC jacket. (20 ft. length) **\$20.99**

MFJ HEADSETS & HEADPHONES



Deluxe Headset/Microphone – Lightweight, comfortable. Superb transmit audio and earphone tonal quality. A foam covered microphone. element is attached to headset with a flexible boom for proper positioning in front of mouth. PTT switch on the 6 ft. cord, hold or attach to clothing. **Order: 288I** for Icom, **288K** for Kenwood; **288Y** for older Yaesu. each **\$24.99**

Featherweight™ Earphone/Mic – Earbud earphone and a thumb-sized mic/PTT switch that's built into the 4 ft. cord. **Order: 292I** for Icom, older Yaesu & Alinco; **292Y** for Yaesu FT-10R/40R/50R and VX-1R/5R series. each **\$17.99**



293 Rubber-flex Earloop Earbud/Microphone – Small and inconspicuous, secure and comfortable. Flexible rubber earloop design and 5 in. flex boom microphone that adjusts to your mouth. Thumb sized PTT switch built right into the 6 ft. cord. **Order: 293I** for Icom, **293K** for Kenwood; **293Y** for older Yaesu. each **\$24.99**

392B Headphones – Perfect for both Ham or SWL listening. Padded headband and ear cushions, and weighs only 8 oz. for comfort. Quality drivers with full 20-20,000 Hz response provide enhanced sound and speech fidelity. Individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4 in. plug adapter. **\$24.99**



YAESU YH-77STA

Stereo Headphones
Impedance: 35Ω. Straight 4 ft. straight cord with 3.5mm plug and 1/4 in. phone plug adapter, wt 4.4 oz.. **\$59.99**

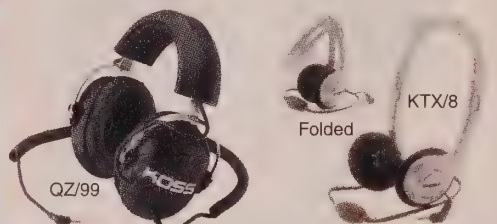


KOSS HEADPHONES



RACETRACKER Noise Canceling Sports Stereophones – Unique and rugged design specifically for racing radio scanners and metal detector users. Features 40-20,000 Hz response and a passive noise reduction system for effective noise isolation. Adjustable headband; Deep bass volume; Mono/stereo switch in the cord with 3.5mm plug; Black. **\$49.99**

QZ/2000 Noise Reduction Stereophone Active Noise Reduction System. Collapsible stereophones; 15-20,000 Hz response; 60Ω impedance; Straight dual entry 4 ft. cord; Control case and adjustable headband; Input jack for audio play-through and adapter for in-flight use; Includes 2 AA's; 2.3 oz. **C/O \$49.99**



QZ/99 Passive Noise Reduction Stereophone with Mono/Stereo Switch – Frequency response: 40 to 20,000 Hz; Coiled, single entry, 8 ft. cord with 3.5mm and 6.4mm plugs; Sensitivity: 102dB SPL/1mW; Z: 60Ω; 15 oz. **\$59.99**

KTX/8 Portable Stereophone – Dynamic elements extend frequency response from 40 to 20,000 Hz. Foam ear cushions for comfort and hear-thru sound. Volume control on the cord. Collapsible headband for storage and portability. 4 ft. cord with 3.5 mm "L" plug. **\$14.99**

SPEAKERS & DSP

YAESU

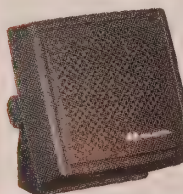


MLS-100 – Mobile speaker that mounts on a swivel base and has a 6.5 ft. long audio cable with a mono 3.5mm plug. 4Ω, 12W capacity. Dim: 5.5" w x 4.2" h x 2.5" d. **\$49.99**

KENWOOD

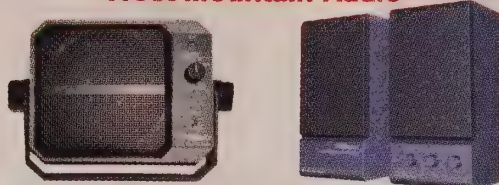


SP-50B Communications Speaker – Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated for 1.5W with a 300 to 4000Hz frequency response. Dim: 4.8" w x 3.2" h x 1.4" d; 10 oz. **\$59.99**



MIDLAND
21-406 High Performance Mobile speaker – Clear, crisp sound. Z: 4Ω, 15W capacity. Dim: 5.5" w x 5.5" h. Swivel base, audio cord with 3.5mm straight plug. **\$22.99**

West Mountain Radio



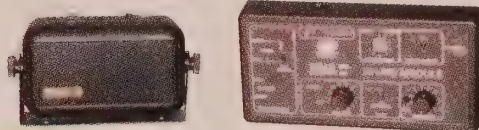
CLR/SPKR ClearSpeech® DSP Noise Reduction Speaker (left) – A 4 in. speaker with an Adaptive DSP Noise Reduction circuit and 2W audio amplifier. The DSP passes Voice and CW while hum, hiss, ignition and power line noise, static crashes and heterodynes are removed or greatly attenuated. Selectable 3-level noise reduction. Includes tilt mounting bracket, 6 ft. 12V DC power cable with Powerpole® connectors and 6-ft. audio cable with 1/8-in. plug. Rear jack for an external speaker connection; On-Off switch; LED power and input level indicators. Dim: 5.25" w x 4.25" h x 2.5" d. **\$219.99**

CLR/DSP ClearSpeech® DSP Noise Reduction Without speaker; 4 watt output. **\$219.99**

CS-1 Computer Speaker System (right) – An RF Proof amplified stereo speaker system for your hamshack computer. Interference-free operation in close range of 1-1000 MHz transmitters. Complete with audio cables and wall power supply. Input: stereo line level 1/8" mini-jack; Output: nominal 3 Watts per channel. Dim: 4.125" w x 8.375" h x 5.25" d (each speaker), 72 oz. (complete). **\$39.99**



Adaptive DSP Technology



HEAR IT DSP Speaker (left) – Adaptive DSP Technology adapts to changes in background or man-made noise levels and attenuates it up to -20dB, resulting in cleaner audio. If your radio already has DSP, it will provide additional improvement in readability. If it doesn't have DSP, there will be a huge improvement. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plug headphones or another speaker into the audio bypass jack and retain the DSP noise reduction feature. A built-in amplifier provides 2.5W of audio power. Requires 12-28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plugs. Dim: 4.5" w x 2.75" h x 2.25" d. **\$169.99**

IN LINE MODULE DSP Module (right) – Provides the same DSP features as the 'Hear it' speaker above, but without the speaker unit. Includes a built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input and output jacks and headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm audio cable and fused power leads. Dim: 6.75" w x 3.35" h x 1.4" d; 1 lb. **\$219.99**

ANEM DSP Module – Similar to the In Line, in a smaller package. Remove cover to access pots for level adjustments. See GAP's page for more info. **\$189.99**



ADSP2 Speaker



70-14 – Delivers Adaptive DSP Noise Reduction for ANY transceiver. There are two pushbutton switches that toggle between 0, 13dB or 26dB of noise cancellation and 1 of 3 bandpass filters 100, 500 & 1500 Hz. It provides -45dB out of band reduction with one-click operation. Headphone jack for private listening. Black metal enclosure with adjustable stand and audio cable. Requires 12 VDC @ 110-500mA. Dim: 5" w x 3" h x 2.5" d; 11 oz. **\$159.99**

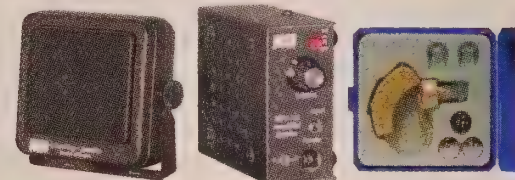
MFJ Miscellaneous DSP & AUDIO



784B Tunable DSP Audio Filter – Improves reception by simultaneously eliminating heterodynes and reducing noise and interference. Has 5 tunable DSP filters, plus 10 programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction automatically handles varying noise levels. Highpass, lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Requires 12 VDC or 110V with the MFJ-1312D. Dim: 9.5" w x 2.5" h x 6" d. **\$259.99**



616 Speech Intelligibility Enhancer™ – Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand QSOs by adjusting response levels to match your own hearing response. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable inputs; bypass switch. Dim: 10" w x 2.5" h x 6" d; requires 12 VDC. **\$179.99**



281 Communications Speaker (left) – A rugged 3 inch mylar cone speaker mounted in an effective baffle. Improves speech intelligibility in the 600 to 4000 Hz range while reducing undesirable noise, static and hum. Includes adjustable mounting bracket. Dim: 3" w x 3.75" h x 2.25" d. **\$12.99**

382 Deluxe Amplified Speaker (center) – Excellent for QRP'ers, base station HTs or rigs that can benefit from a higher volume level. A quality 3 inch speaker is housed in an all metal cabinet with rubber feet and vinyl clad cover. Uses a 9V battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 1.75" w x 3.5" h x 4.5" d. **\$39.99**

388 CyberEar™ 12dB Amplifier (right) – Tiny and powerful. Plugs in and loops over right or left ear. Captures and amplifies sounds by 12dB to extend your hearing range. Flesh color makes it hardly noticeable. Volume control, on/off switch. Three interchangeable ear plugs. Lightweight, only .35 oz. Includes batteries. Not a hearing aid. **\$29.99**

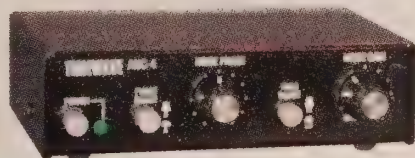


1263 Microphone Control Center – Eliminates swapping mic connectors. Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Includes one modular to modular cable and one 8-pin round to modular cable. Dim: 6" w x 1.5" h x 5" d. **\$109.99**

DSP NOISE REDUCTION



DSP-599ZX DSP Noise Filter – Digital Signal Processing provides superior reduction of QRM and QRN. Analyzes signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10-600 Hz; Center frequencies 200-2150 Hz, wide filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR, HF Packet SSTV, WeFAX, SITOR and CLOVER. Test instrument mode provides an audio sine wave generator, audio millivoltmeter and two-tone audio generator.
Dim: 7.6" w x 1.9" h x 8.5" d; 2 lbs **\$399.99**



ANC-4 Antenna Noise Canceller and Diversity Combiner – Effective with any HF/6M transceiver (up to 250W) or receiver from 500 kHz - 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver's AGC. Connects between your antenna and radio with a second antenna acting as a noise pickup antenna. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. The ANC-4 operates as an active antenna by using the noise antenna and the NOISE GAIN control to amplify the antenna output. And it can also be used as a diversity combiner enhance weak signals or null interfering signals. 11 16V DC @ 300 ma. Dim: 6" w x 1.7" h x 4.3" d; 2 lbs **\$199.99**



TONE SIGNALLING

NC-101 CTCSS Encoder – Field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. 5 to 15VDC. Dim: 0.6" w x 0.15" h x 0.8" d. **\$21.99**

NC-401 Touch-Tone Decoder – Two addressable decoders control remote or local applications. Decodes 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of primary and secondary codes, input/output functions, deadbeat disable and user outputs. 6 to 24VDC. Dim: 0.80" w x 0.23" h x 1.38" d. **\$76.99**

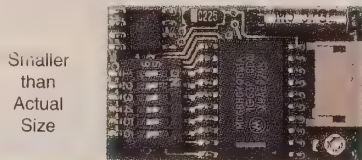
DV Dongle - D-Star on your PC!

DV DONGLE – Connects via USB port to a PC or Mac. Using DVTool software, a Ham operator can connect to the D-Star Gateway Network and receive and transmit just like operating a D-Star radio. The DVTool software runs on Microsoft Windows XP/Vista/Windows 7, Mac OS X Leopard (10.5+) and many versions of Linux. Includes USB cable and getting started information. System requirements: 2+ GHz CPU, 512MB RAM, USB 2.0 port, microphone, speaker (or headset) and high speed internet. **\$199.99**

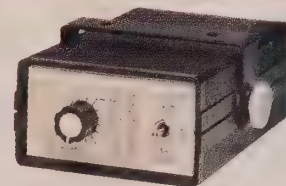
COMMUNICATIONS SPECIALISTS, INC. TONE ENCODERS & DECODERS



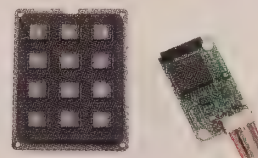
SS-64 Programmable CTCSS Encoder – Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 1.08" x 0.66" x 0.21"; 6-28 VDC. **\$28.99**



TS-64DS Field programmable CTCSS Encoder / Decoder – DIP switches select 64 tones 33 - 254.1 Hz. Dim: 2" x 1.25" x 0.3"; 6-28 VDC **\$57.99**

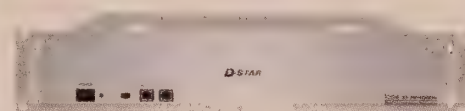


TE-32 Multi-tone Encoder – Provides 32 tones via direct access from the rotary dial switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6-30 VDC. **\$59.99**



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20 VDC. Dim: 1.85" x 1.12" x 0.35". **\$69.99**

ICOM D-STAR REPEATERS & CONTROLLER



D-STAR is a new ham radio system which offers digital voice and data communication. It connects repeater sites over the Internet to form a global ham radio network. It provides a new capability and functionality to ham radio and emergency communications systems. Some of these features include: D-PRS®, Text Messages, Internet Access, Auto I.D., Digital Voice and Location, Rescue Tracking, and Crossbanding.

ID-RP2C Repeater Controller – Controls up to 4 RF modules. Every D-Star repeater system needs a repeater controller. **CALL/WEB**

ID-RP2000V 2M Voice Module – RX & TX: 144-148 MHz; Output Power: 23-30W (high) and 2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps). **CALL/WEB**

ID-RP4000V 440 MHz Voice Module – RX & TX: 440-450 MHz; Output Power: 23-30W (high) and 2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps). **CALL/WEB**

Special Order Units:

ID-RP2D 1.2 GHz Data Module – RX & TX: 1240-1300 MHz; Output Power: 9-12W (high) and 0.5-1.2W (low); Communication speed: 128 kbps. **CALL/WEB**

ID-RP2V 1.2 GHz Voice Module – RX & TX: 1240-1300 MHz; Output Power: 6-12W (high) and 0.5-1.2W (low); Communication speed: 4.8 kbps. **CALL/WEB**

YAESU



2M FM REPEATER

VXR-7000VA 50W 2M FM Desktop Repeater 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, auto. DC back-up.
Dim: 12.8" w x 4.5" h x 15.4" d; 22 lbs. **\$1299.99**

* Dealer programmed feature

WIRES™ INTERNET LINKING

WIRES™ (Wide-Coverage Internet Repeater Enhancement System) is an easy-to-use system for linking repeaters and/or home stations together, using Internet voice technology. You can talk world-wide using your HT or mobile radio via a WIRES-equipped node.



HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™ II user/server agreement. **\$169.99**



DV Dongle

DV AP

DV AP - Turn your PC into a Hot Spot!

DV AP – The DV Access Point allows users to connect to the D-Star Network using a 2M D-Star radio without being in range of a D-Star repeater that is on the gateway. The DVAPTool software connects the DV AP to the D-Star Network by using a 1.6+ GHz CPU PC running Windows XP/Vista/7 or Linux, or an Intel CPU based Mac running OS X with a USB port and high speed internet. The DV AP has a 10mW 2M transceiver that gives you about 100 yard range with the supplied SMA antenna. You can extend the range using a higher gain outside antenna. **\$249.99**



MFJ CODE PRACTICE READERS KEYERS

557 Code Oscillator with Key – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D (\$15.99). Dim: 3.75" w x 2.25" h x 8.5" d. ... **\$39.99**



554 Code Practice Oscillator – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Dim: 4.25" w x 1.5" h x 5" d. **\$89.99**

550 Simple Hand Key **\$14.99**



414 Professional Classroom Tutor – Features include LCD readout, printer port and audio tape recording output. Create and save 3 custom messages for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory Keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D (\$15.99) Dim: 8.5" w x 2.25" h x 6" d. **\$199.99**



452 with Keyboard (not shown)

462B

452 Super CW Keyboard – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5-100WPM; Weight: 5-95%; Sidetone: 300-3000 Hz sidetone; Serial Numbers (0-9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC. **\$149.99**

452X – Same as 452 without keyboard. **\$119.99**

462B MultiReader™ – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. The internal speaker is used to monitor incoming CW audio signal. Requires 12VDC. Dim: 6.25" w x 2.5" h x 6.25" d. **\$189.99**

5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack. **\$7.99**

418 Pocket-Size Morse Code Tutor with LCD Display – Learn Morse Code anywhere! A large LCD display reads out letters, numbers and punctuation in plain English. See code as it is being sent. MFJ's proven Beginners Course takes you from zero code speed to solid copy fast! Realistic plain English QSO practice helps you pass your FCC Code exam. High-Speed practice takes you to Extra Class and beyond. Practice copying entire words - not individual characters. Easy to use just choose from menus on the LCD - no manual needed. Uses 9V battery (not included). Dim: 3.75" w x 2.25" h x 1" d; 5.5 oz. **\$89.99**

461 Pocket-Size Morse Code Reader – Looks like the 418 but turns Morse Code signals into text on the LCD screen. Full description on page 118. .. **\$89.99**



464 CW Reader With Built-In Keyer – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25" w x 2.5" h x 6.25" d. **\$189.99**

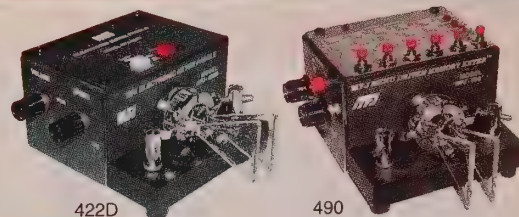


407D Deluxe Electronic Keyer – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7" w x 2" h x 6" d. **\$79.99**

401D Econo Keyer – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4" w x 1.75" h x 3.75" d. .. **\$69.99**



434B Contest Voice Keyer™ – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like "CQ Contest this is K9KHW" ... "You're 59" ... "Grid is EN63" and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3-500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head (\$34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, (\$15.99). Dim: 6.5" w x 2.5" h x 6.5" d. **\$189.99**



422D Keyer-Paddle Combo – Consists of a unique MFJ/Curtis Keyer™ in a compact package installed on a Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 4" w x 2.25" h x 4.25" d. **\$179.99**

422DX Keyer Only – Install on your Bencher or MFJ 564 iambic paddle. **\$89.99**

490 Menu Driven Memory Keyer and Bencher Paddle Combo – A compact feature-rich Keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic, bug or handkey modes. Select iambic A/B, Morse trainer or contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 5" w x 3" h x 5.5" d. **\$199.99**

490X Menu/Memory Keyer Only – Same as MFJ-490 but without Bencher paddle. **\$119.99**



492 Menu Driven Memory Keyer – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.5" x 2.5" x 6.25" .. **\$109.99**



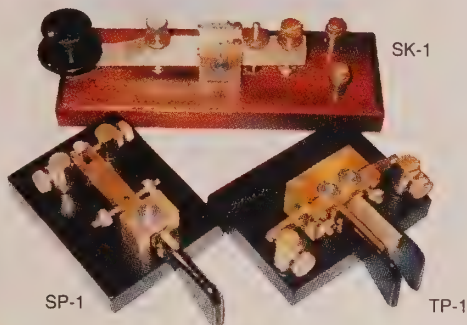
495 Millennium CW Keyer – A powerful Keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic Keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.25" w x 2.5" h x 6.25" d. **\$169.99**



447 SlimLine Deluxe Keyer – Front panel speed, weight, tone, volume controls and message, semi-auto, tune, power buttons. Jack for speaker or headphones. Dim: 6.25" w x 1.75" h x 5" d. **\$89.99**

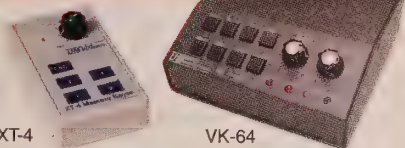
KENT Keys

Produced by R.A. Kent Engineers. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



- SK-1** - Straight Morse Key. \$129.99
SP-1 - Single Paddle Morse Key. \$139.99
TP-1 - Dual Paddle Iambic Key. \$149.99

UM Unified Microsystems



- XT-4** CW Memory Keyer - Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery. \$69.99
KC-4 - CW Cable set for XT-4 & VK-64. \$9.99
VK-64 Combination CW/Voice Keyer - Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply. \$219.99
VKC-8 Shielded Audio Cable - A semi-kit wired and tested except for microphone and transmitter connectors (8-pin). \$24.99



The Better RF Company

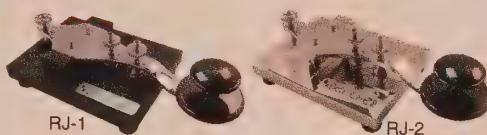
I-MATE Message Accessory for ICOM PRO Series Provides external selection of pre-recorded voice and keyed messages for the IC-7800, IC-756PROII & III and keyed CW messages for the IC-746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second mic. Plugs into transceiver mic. jack and powers from the available voltage. \$84.99

BENCHER, INC. IAMBIC & SINGLE LEVER PADDLES



Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contact points and heavy non-skid base.

- IAMBIC**
BY-1 - Black base/Chrome components. \$119.99
BY-2 - Chrome base & components... \$149.99
BY-4 - Black base/Gold components.. \$179.99
SINGLE LEVER
ST-1 - Black base/Chrome components. \$119.99
ST-2 - Chrome base & components.. \$144.99



RJ-SERIES KEYS

Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.
RJ-1 - Black base/Chrome components... \$119.99
RJ-2 - Chrome base & components... \$149.99



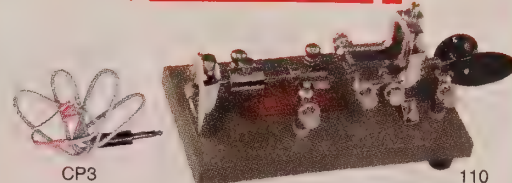
Code practice oscillator and Morse code monitor

Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.
OCM-2W Wired \$29.99 • **OCM-2K** Kit \$19.99



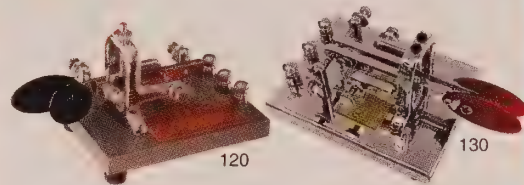
- Morse Code Keys**
K-1 Low-cost General Purpose Key - Phenolic base, adjustable tension, contact spacing. \$10.95
K-4R Deluxe High Quality Key - Polished brass plated zinc base, shorting bar. \$19.95

VIBROPLEX®



The Original Bug from 1904 for 20-50+ WPM.

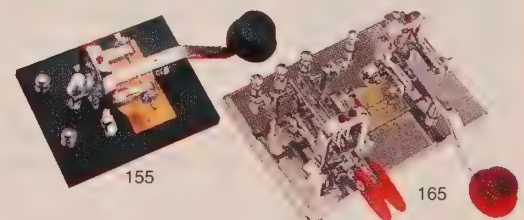
- 110 Standard** - Painted base/chrome top. \$199.99
195 Blue Racer 2000 Standard - Blue base with chrome top and red finger pieces. \$209.99
105 Deluxe - Polished chrome base and top parts with fine jewel movements. \$239.99
100 Presentation - Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements. \$299.99
CP3 1/4" Plug and Cord for CW Keyers. \$9.99



- Vibrokeyer** (left) - Single lever paddle initiates automatic dots and dashes of an electronic keyer.
120 Standard - Black base, chrome parts. \$159.99
115 Deluxe - Chrome base and top parts with jeweled movements. \$189.99
Iambic (right) - Allows automatic dot/dash insertion.
135 Standard - Black base, chrome parts. \$159.99
130 Deluxe - Chrome base and top parts with jeweled movements. \$199.99
125 Presentation - 24K gold-plated top plate, chrome base with jeweled movements. \$269.99

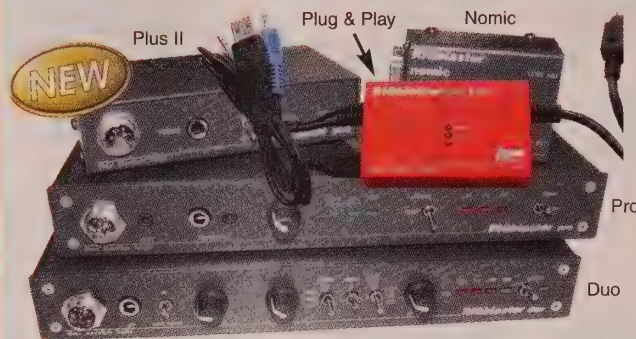


- 145 Triangle Brass Racer Iambic** - Solid brass paddle & polished hardwood base. \$139.99
150 Square Brass Racer - Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs. \$149.99
190 Square Racer Standard - Black base with chrome top parts, cord included. \$129.99
200 Code Warrior Jr - Magnetic Paddle.. \$99.99

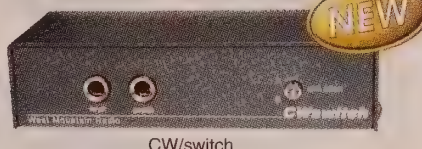


- Straight Keys** (left) - Unique mechanical action, unlike any straight key ever manufactured.
155 Standard - Black base, chrome parts. \$159.99
160 Deluxe - Chrome base and parts... \$189.99
Deluxe Double Keys (right) - Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.
165 DLX Straight Key/Iambic \$349.99

West Mountain Radio



RIGblasters & CW/switch



The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of an old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, come with an up-to-date CD collection of ham radio operating software, all the cables and power supply – all you need to get on the air. Five models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

RB/PR/CUSB RIGblaster Pro USB – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with a computer and a radio. For 8-pin and RJ-45 radios as supplied. ... **\$299.99**

RB/PL2/CUSB RIGblaster Plus II USB – Run all sound card modes with fully automatic operation between the mic and computer. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output Uses a plug and play USB interface Built in CAT/CI-V rig control interface, a front panel transmit level knob and it is USB powered. For 8-pin and RJ-45 radios as supplied **\$159.99**

RB/NO/CUSB RIGblaster Nomic USB – Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied..... **\$59.99**

RB/PP RIGblaster Plug & Play – Compatible with over 25 modes and all ham radio sound card programs. Connects through radio's DATA jack and computer's USB port and sound input. A built-in USB to serial converter provides T/R switching, CW keying and CAT/CI-V rig control. Complete with USB cable, computer audio cable & a CD ROM. The plug & play has fully isolated audio and keying, runs from USB power. A special feature for Echolink provides carrier detect on CTS, DSR and DCD. Some radios will require an additional Data Jack Adapter cable; does not work with FT-847 or FT-1000D. **\$119.99**

CIV/CBL Rig Control Cable for CI-V Radios ... **\$9.99**
CATMINI/CBL Rig Ctrl Cable for CAT Radios . **\$13.99**

Auxiliary Jack Adapters:

RPA/I13D 13-pin DIN, for Icom. **\$9.99**
RPA/I8D 8-pin DIN, for Icom. **\$9.99**
RPA/K13D 13-pin DIN, for Kenwood. **\$9.99**

For Rig Compatibility information see the chart at:
www.aesham.com/rig.shtml

Note: Vista & Windows 7 Users ...

If you need the correct drivers and installation procedures for your 32 or 64 bit operating systems go to:
www.westmountainradio.com/support.htm

RB/DU/CUSB RIGblaster Duo Station Integration Console – Now make your station neater, better and more efficient. The duo has the same capabilities as other RIGblasters, but additionally, you can operate two radios using one microphone, one set of headphones, one pair of speakers and just one soundcard interface in your USB equipped PC with an available USB socket. The duo's built-in dual USB to serial converter allows you to use two ham radio software applications at the same time. It can be used with almost any microphone and works with a single pair of amplified or unamplified speakers. You can monitor any combination of radio (A, B) and computer on headphones and/or speakers. Each radio can be internally configured for your choice of stereo dual receive, dual mono or left or right. Dual isolated CW keying and dual FSK outputs key both radio via computer software that can operate with either virtual COM port. Dual CI-V or single TTL level CAT control to control radios via either virtual COM port. Comes with two 8-pin round mic. cables, one RJ-45 mic. cable, DC cord, jumper pack, USB cable, four mini-audio cables and adapters. Requires 13.8 VDC @ 1.8 amps.....**\$349.99**

CW/switch

Conveniently switch CW paddles, keys and/or external keyers and computer keyers between two radios for use with break-in or semi-break-in transmit activation. May be used stand-alone manually operated by the front panel transmit select switch or as a remotely controlled accessory for the RIGblaster Duo. It can also be controlled remotely by a switched 12 volt control source. Since modern radios sometimes have two key/keyer inputs, there are two switching circuits. One switches two wires to select either straight keys or external keyers. Note: the output of a keyer, whether it be a computer being used to type CW or an external keyer controlled by a paddle is two wires just like a straight key. These CW keying devices can only be plugged into a radio's straight key jack. The other circuit is a three wire switching circuit that is intended for dot-dash paddles that make one connection to send dots and another to send dashes. These paddies must be plugged into a radio's paddle input in order to use a radio's internal keyer. There are two CW/switch versions – stand alone, and for use with a RIGblaster Duo. The difference is one comes with a 12 VDC power cord and the other with a Duo interface cord.
CW/SWITCH 2-Rig CW Break-in Switch**\$59.99**
CW/SWITCHDUO For RIGBlaster Duo.....**\$59.99**

SignalLink™ USB with built-in Sound Card



Virtually ALL sound card Digital and voice modes are supported by the SignalLink™ USB. This includes traditional modes such as RTTY, SSTV and CW (to name a few), as well as today's hottest new modes like PSK31, WSPR, WINMOR, MT-63 and EchoLink®. Performance on all modes has been optimized by the use of special low-noise parts and careful design techniques, while ease of operation is provided by front panel controls that let you adjust your Transmit Audio, Receive Audio and Transmit delay "on the fly". Some features: FCC Class B Certified; Built-in Low-noise Sound Card; Simple Installation and Setup; Complete Radio Isolation; USB Port Powered; Works with virtually all Radios; Uses Mic, Data, or Accy Port; Supports virtually all Sound Card Digital and Voice Modes.

SignalLink USB with Radio Cable:

SL-USB-13I 13-pin DIN for Icom. **\$104.99**
SL-USB-13K 13-pin DIN for Kenwood. .. **104.99**
SL-USB-6PM 6-pin mini DIN. **99.99**
SL-USB-8PD 8-pin DIN..... **99.99**
SL-USB-8R 8-pin round mic connector... **99.99**

MFJ SOUND CARD to RIG Interfaces



Sound Card Interface – A simple connection between a transceiver and computer sound card to operate Digital Modes; WSJT, PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a collection of popular Digital mode software on CD.

1275 Accepts 8-pin round mic plug. .. **\$99.99**
1275M Accepts RJ-45 modular plug ... **\$99.99**

Super Sound Card Interface – Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Includes CD with a selection of Digital mode software, RS-232 and audio cables, and AC power supply.

1279 Accepts 8-pin round mic. plug .. **\$129.99**
1279M Accepts RJ-45 modular plug .. **\$129.99**

Basic Sound Card

Interface – A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or mic switch). Includes RS-232, audio and mic cables and Digital mode software CD. No external power needed.

1273B Accepts 8-pin round mic plug .. **\$59.99**
1273BM For RJ-45 modular plug..... **\$59.99**

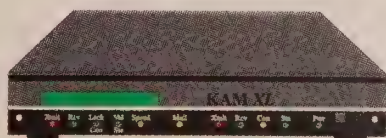
MULTI-MODE DATA CONTROLLERS

Kantronics



KPC-3 Plus/128 - 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM. **\$229.99**

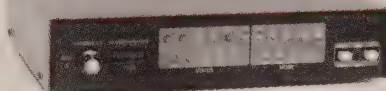
9612 Plus/128 - 1200 bps port and second port of 4800 - 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCsAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability. **\$399.99**



KAM XL Multi-Mode DSP Controller - Third generation multimode TNC, state-of-the-art for operations on HF/VHF/UHF, while supporting DSP modems and popular new modes: Packet (300, 1200, 9600 bps); G-TOR; PACTOR I; AMTOR (ARQ, FEC, SELFC, CCIR 476 and 625); PSK31; RTTY; NAV-TEX/AMTEX; ASCII; WEFAX; EMWIN; Dual-port Mailbox; CW; GPS NMEA-0183 compatible; Telemetry; Remote Control: Remote SYSOP Access; Kantronics Host Mode and KISS. Features include: **Location Tracking/Announcement** with a GPS connected you can automatically announce your position to others via HF, VHF or UHF; **HF and/or VHF/UHF Operations** with dual radio ports a local packet can be received on VHF or UHF, then transmitted over HF; **Large Capacity Internal Mailbox** with 480K storage standard. **\$446.99**

12VDCADAPTOR 120VAC Adapter - Supplies 12VDC @ 300 mA for Kantronics units. **\$19.99**

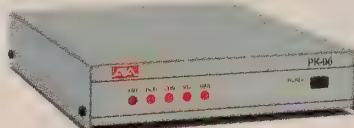
TIMEWAVE TECHNOLOGY INC.



PK-232/PSK Multimode Data Controller - The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. 11-16V DC @ 800 ma. Dim: 11"w x 2.5"h x 8.25"d; 3 lbs. **\$499.99**

PK-232/USB - Same as above except the RS-232 port is replaced by a USB port. **\$529.99**

PACKET TNC



PK-96/100K 9600/1200 packet TNC - 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; 128K RAM. Requires 12V DC. Dim: 6.25"w x 1.375"h x 7.5"d; 1.25 lbs. **\$219.99**

AC-1 120VAC Adapter - Supplies 12VDC @ 700 mA for PK-232/PSK/USB & PK-96/100K. **\$15.99**

AC-5 120VAC Desktop Power Supply - Supplies 13.8VDC @ 1.5 Amps for the DSP-599ZX, PK-232/PSK/USB & PK-96/100K. **C/O \$22.99**

rt SYSTEMS RADIO PROGRAMMING MADE EASY



RTS-03 USB to Serial Port Adapter Connect computers without serial ports to older serial controllers, sound cards, cables, etc. Includes drivers on CD-ROM for Windows 2000, XP & Vista. **\$22.99**

W4RT Electronics

RADIO ACCESSORIES

One-Plug Filters

Direct plug-in W4RT-built Collins mechanical filters for Yaesu and Icom radios. Improve your CW/PSK experience with a 300 Hz (8-pole) or 500 Hz (7-pole) filter. The 300-Hz is often preferred by CW & PSK contesters. The 2.3 kHz SSB filter contains a 10-pole Collins Mechanical Filter. "Hearing" is improved and tests have demonstrated that a 2dB improvement in talk power can be realized by using this filter rather than the stock MuRata ceramic filter. All filters are properly terminated and easy to install except for the IC-703 filter that we recommend AES installs.

OPF-YCW300 300 Hz CW filter for Yaesu FT-817/857/897 and FT-2000 series. **\$119.99**

OPF-CW 500 Hz CW filter for Yaesu FT-817/857/897 and FT-2000 series. **\$114.99**

OPF-SSB 2.3 kHz SSB filter for Yaesu FT-817/857 and FT-897 series. **\$134.99**

OBF817/NDIY 500 Hz CW & 2.3 kHz SSB filter for Yaesu FT-817 series. **\$249.99**

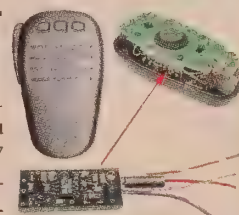
OBF703718DIY 500 Hz CW & 2.3 kHz SSB filter for Icom IC-703 & IC-718 series. **\$249.99**

Speech Compressor

OBP-STD

One BIG Punch Installs inside the MH-31 mic. used with the Yaesu FT-817/847/857 & 897 series transceivers. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. Requires no additional power. Turns On/Off with the MH-31's Tone switch. **\$69.99**

OBP-UNIV - The One BIG Punch for microphones having 7-12V DC available, like the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios. **\$69.99**

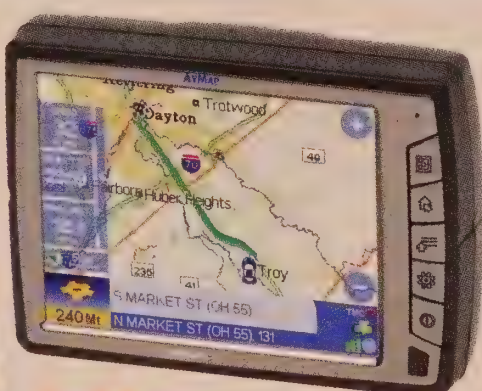


MFJ DX BEACON MONITOR

890 - Checks worldwide band conditions in just three minutes. It's a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies (14.100, 18.110, 21.150, 24.930 and 28.200 MHz) in your receiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard (on your station receiver) on any of the beacon frequencies, that band is open to the location as indicated by the corresponding LED. No receiver connection required. 12VDC or 110VAC with the MFJ-1312D. Dim: 6.7"w x 5.2"h x 3"d. **\$109.99**



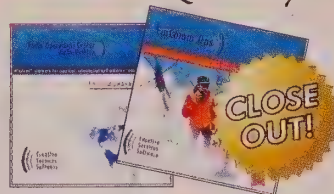
Offering
Navigation, plus APRS
Ready for these
KENWOOD Transceivers



AvMAP GPS Navigator

G5 - The ultra bright non-glare 5 inch LCD TOUCHSCREEN is easy to view in any lighting condition. Comes preloaded with highly detailed Tele Atlas street maps of North America on a 4 GB SD memory card and gives you color 2D and 3D views with turn by turn voice prompts in 14 different languages. Includes a Kenwood-ready cable and exclusive APRS interface built right into the G5. This bi-directional RS-232 APRS interface is balanced for ALL current APRS ready Kenwood Radios. Other features include: detachable 12v power cable, bi-directional NMEA 183 serial port, external antenna port, NTSC/PAL video and audio input, PC connection for software updates via USB port, off road, fastest route, and least turns calculations with turn details. Routing instructions include current road name and house number with road name and the next turn command. "Drive Me Home" rapid command. Intuitive touch screen address lookup with millions of points-of-interest. Includes all-in-one navigation and mobile navigation software, built-in speaker, lithium-ion rechargeable battery and car charger, 4 GB SD memory card, and cables. Dim: 5.5"w x 3.9"h x 1.4"d; 0.86 lb. **CALL/WEB** • See the full G5 brochure at: www.avmap.us

CLOSEOUTS - Limited Quantity!



Radio Operations Center (ROC)

A comprehensive suite of full-featured software solutions for commercial radio, Ham radio, MARS and marine radio control. The only 32-bit Windows software available for operating TNCs in host mode as well as soundcard support for all the digital radio modes. Multi-task quickly and easily integrate other radio or PC productivity tools, and take full advantage of the speed and processing power of the latest XP, Vista and Windows 7-based computers. Order CD ROM **CSS ROCDIGDESKAE** for PK-12/96/232 or **CSS ROCDIGDESKKA** for KANTRONICS TNC..... **CLOSEOUT** each **\$79.99**

EmComm Ops

For many radio operators, especially those involved in emergency communications (EmComm), only packet mode is needed. EmComm Ops is an efficient solution for radio operators who only want to use their radio and TNC for packet communications on the VHF bands. Order CD ROM **CSS EMCOMMOPSAEA** for PK-12/96/232 or **CSS EMCOMMOPSKAN** for KANTRONICS TNC..... **CLOSEOUT** each **\$19.99**

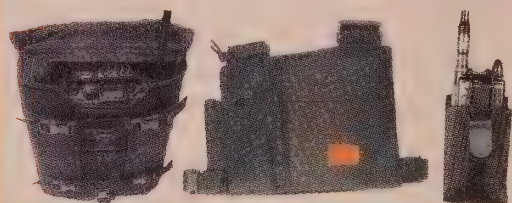
PK-232 25th Anniversary Collection

Includes PakRatt for DOS and Windows, Wefax for DOS, Pkterm '99, Pkterm for Windows and Digital Desktop for AEA/Timewave. Special serial# and key works for all products including the current version of Digital Desktop for Windows®. PDF manuals for all programs. Collectable, only 10,000 copies available **CSS PK23225THANN C/O \$119.99**

Digital Desktop for IC-7600/7200

A version of CSS's popular Digital Desktop software made specifically for the Icom IC-7600 and IC-7200 HF radios. No need for a sperate soundcard interface because the soundcard and radio keying interface is already built into these radios. Supports RTTY, MT63, PSK31, SSTV and has a built-in log-book. Includes a USB cable to connect the radio to your PC **CSS DIGDESKTOPSC C/O \$29.99**

PORTABLE PACKS



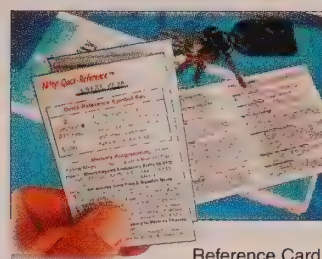
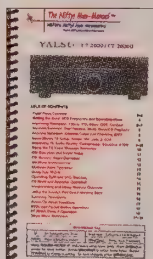
COMMUNICATION OUTFITTERS EXP-1 Expedition Pack for FT-817 (left) - Allows backpack-style or table top operation with access to all controls. Zippered pouches hold most any collapsed antennas. Divided radio compartment holds the FT-817 on top, and the lower compartment can hold an amplifier, tuner or another radio. Water-resistant. Dim: 12"w x 4"h x 15"d..... **\$99.99**

MFJ 18 HamGear™ Tactical Chest Harness (center) - For portable use like DXpeditions, field day, hiking, etc. You can adjust the shoulder straps with the harness held in place by the elastic belt. An extra cargo pocket holds another radio, accessories, extra batteries, maps, etc. **\$29.99**

MFJ 15 HamGear™ Belt Loop Radio Holder (right) - A durable twill burlap pocket that uses elastic cord and velcro closure so it easily stretches over any HT without removing the antenna. Secures to belt with an attached loop..... **\$14.99**

Nifty! Ham Accessories

Quick Reference Operating & Programming Guides



Reference Card

Mini-Manuals - Fully laminated, water resistant spiral bound booklets, 4-1/4 x 8 inches, providing simplified step-by-step instructions for most radio's features. More informational than simple key function data charts. Easy to read and color-coded to quickly find the information you need.

Tri-Folded Reference Cards - Professional quality three-page foldout cheat sheets the size of a credit card for easy carrying in a wallet or purse.

Mobile Quick Reference Cards - The size of a common highway map, 4 x 8 in., double sided. Stores in car-door map-pocket or in the glove box.

Guides for ICOM Models:

- QR-ICT70A** - Tri-folded Reference Card... **\$5.99**
- QR-ICT90A** - Tri-folded Reference Card..... **5.99**
- QR-ICV8** - Tri-folded Reference Card..... **5.99**
- QR-ICV80** - Tri-folded Reference Card..... **5.99**
- QR-ICV8000** - Quick Reference Card..... **5.99**
- QR-IC208H** - Quick Reference Card..... **5.99**
- QR-IC2200H** - Quick Reference Card..... **5.99**
- MM-IC2820H** - 20 page Mini-Manual. **20.99**
- MM-IC7000** - 20 page Mini-Manual. **20.99**
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- MM-IC7700** - 26 page Mini-Manual. **24.99**
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- MM-IC92AD** - 24 page Mini-Manual and Tri-folded Quick Reference Card Combo..... **24.99**
- MM-ID880H** - 24 page Mini-Manual..... **22.99**

Guides for KENWOOD Models:

- QR-THF6A** - Set of 2 Tri-folded Ref. Cards. . **\$7.99**
- QR-TM271A** - Quick Reference Card..... **5.99**
- MM-TMD710A** - 24 page Mini-Manual. .. **22.99**
- MM-TMV71A** - 16 page Mini-Manual..... **18.99**
- MM-TS2000/X** - 18 page Mini-Manual. .. **18.99**

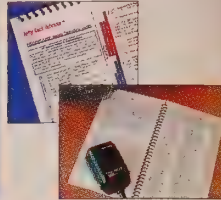
Guides for YAESU Models:

- QR-FT1802M** - Quick Reference Card..... **\$5.99**
- QR-FT250** - Tri-folded Reference Card. **5.99**
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- QR-FT2800M** - Quick Reference Card. **5.99**
- QR-FT60R** - Tri-folded Reference Card..... **5.99**
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- QR-VX3R** - Set of 2 Tri-folded Ref. Cards..... **7.99**
- QR-VX6R** - Tri-folded Reference Card..... **5.99**
- QR-VX7R** - Tri-folded Reference Card..... **5.99**
- MM-VX8R** - 22 page Mini-Manual and Tri-folded Quick Reference Card Combo..... **24.99**
- MM-VX8DR** - Same but for VX-8DR..... **24.99**
- MM-VX8GR** - 20 page Mini-Manual and Tri-folded Quick Reference Card Combo..... **24.99**
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- MM-FT450/AT** - 18 page Mini-Manual... **20.99**
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- MM-FT7900R** - 12 page Mini-Manual.. **\$16.99**
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- MM-FT857D** - 12 page Mini-Manual. **16.99**
- MM-FT8800R** - 12 page Mini-Manual..... **16.99**
- MM-FT8900R** - 12 page Mini-Manual..... **16.99**
- MM-FT897D** - 12 page Mini-Manual. **16.99**
- MM-FT950** - 20 page Mini-Manual. **20.99**

Guides for MFJ Analyzers:

- MM-MFJ259B** - 8 page Mini-Manual. .. **\$12.99**
- MM-MFJ269** - 8 page Mini-Manual..... **12.99**



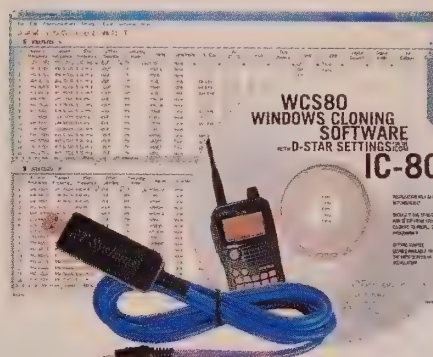
EZGUIDEDSTAR E-Z Guide to D-STAR Describes the D-STAR operating modes, enhanced features, popular programs, repeater configurations and programming. Set up your radio to take advantage of call routing and linking within your local repeater system and internet gateways. **\$13.99**

EZGUIDE PSK31 E-Z Guide to PSK31 - Using DigiPan software as a basis, a step-by-step approach is used for configuring your software and computer system. Separate chapters for installation and setup of 3 different PC-to-Radio interfaces.. **\$12.99**

HF/VUOPGUIDE Operating Guide for the HF/UHF/VHF/Bands - Navigating the ham bands, identifying modes of operation and location. Integrates FCC regulations with operator practices and a variety of other useful information. **\$10.99**

DXFIELDREF DX Field Reference - A complete list of Country Prefixes cross referenced to ITU and CQ zones. CQ and ITU world maps, NCDXF/IARU Beacon, DX Cluster, Propagation info. **\$15.99**

RT SYSTEMS RADIO PROGRAMMING MADE EASY



- Insert or delete channel information without re-entering the entire list
- "Direct-Link" to ARRL TravelPlus™
- Open several files at once to copy between them; even files for different radios
- Multi-row copy/paste (all data or single column)
- Printing • Find and Go-to
- Sort on any field then un-sort to original order

Available for the following ICOM Radios.
Kits include software on CD and USB cable.

- WCS-D880** - ID-880H w/D-Star settings.. **\$49.99**
- WCS-T90** - For IC-T90A. **49.99**
- WCS-V8000** - For IC-V8000..... **49.99**
- WCS-208** - For IC-208H..... **49.99**
- WCS-2200** - IC-2200H w/D-Star settings... **49.99**
- WCS-2820** - IC-2820H w/D-Star settings... **49.99**
- WCS-7000** - For IC-7000. **49.99**
- WCS-80** - IC-80AD w/D-Star settings. **49.99**
- WCS-91** - IC-91A/AD w/D-Star settings..... **49.99**

Building Blocks for the Perfect Station

ANTENNAS

GAP
ANTENNA PRODUCTS

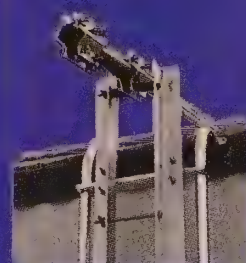
CHALLENGER DX

TITAN DX

VOYAGER DX

EAGLE DX

ACCESSORIES



**QUICK TILT
LADDER MOUNT**



**QUICK TILT
GROUND MOUNT**



GUY KITS

DSP AUDIO



HEAR IT IN LINE MODULE



HEAR IT ANEM



HEAR IT SPEAKER

A GAP ANTENNA HAS NO TRAPS, COILS, OR ELECTROMECHANICAL DEVICES, WHICH CAN INCREASE LOSS AND DECREASE RELIABILITY. SIMPLICITY IN DESIGN AND OVER 20 YEARS OF EXPERIENCE IN THE AMATEUR COMMUNITY RESULTS IN USER FRIENDLY ASSEMBLY, INSTALLATION AND OPERATION. SIMPLY LINE UP THE BIG PREDRILLED HOLES IN 6063 ALUMINUM OVER THE LITTLE HOLES AND INSERT A SCREW. A GAP IS PRETUNED AND DESIGNED TO HANDLE 1.5 KW PEP WITH A VSWR UNDER 2:1 ACROSS THE ENTIRE BAND*.

See GAP in the Price Guide

BANDS OF OPERATION	2m	6m	10m	12m	15m	17m	20m	30m	40m	80m	160m
GAP CHALLENGER DX	X	X	X	X	X		X		X	X	
31.5' TALL WEIGHS 21LBS SUPPLIED W/ DROP IN GROUND MOUNT REQUIRES 3 WIRE COUNTERPOISE @ 25'											
GAP TITAN DX			X	X	X	X	X	X	X	X	
25' TALL WEIGHS 25LBS MOUNTS ON 1 1/4" MAST NO RADIALS REQUIRED											
GAP VOYAGER DX							X		X	X	X
45' TALL WEIGHS 39 LBS SUPPLIED W/ HINGED BASE REQUIRES 3 WIRE COUNTERPOISE @ 57'											
GAP EAGLE DX			X	X	X	X	X		X	X	
21' TALL WEIGHS 19LBS MOUNTS ON 1 1/4" MAST NO RADIALS REQUIRED											

MONO GAP

Simple, easy to assemble, mono band antenna. Ideal for very limited space. Perfect for those who operate on a particular band and great for school demos and field days.

CONTINUOUS COVERAGE UNDER 2:1 ACROSS THE SPECIFIED BAND.

EACH SUPPLIED WITH:
3 - WIRE COUNTERPOISE
PVC GROUND MOUNT
1/2 WAVE FEEDLINE

20m MONO GAP
16' Tall
7 lbs

40m MONO GAP
31' Tall
12.5 lbs

DSP NOISE CANCELLING PRODUCTS

THE PERFECT GO-BETWEEN YOUR EARS & YOUR RADIO. DESIGNED TO ELIMINATE NOISE & INCREASE YOUR LISTENING PLEASURE. PLUGS INTO THE EXTERNAL SPEAKER OUTPUT ON YOUR RADIO. ALL UNITS REQUIRE A 12-24 VDC POWER SUPPLY.

IN LINE MODULE - IDEAL FOR THE TRUE AUDIOPHILE. HOOK UP YOUR FAVORITE SPEAKER TO THIS DSP UNIT AND YOU CAN EASILY CONTROL PROCESSING LEVELS AS WELL AS INPUT AND OUTPUT LEVELS.

SPEAKER - WELL SUITED FOR MOBILE APPLICATION. THE SPEAKER AND DSP PROCESSOR ARE ALL IN ONE UNIT. REAR MOUNTED DIP SWITCHES CONTROL THE LEVEL OF PROCESSING. SET IT AND FORGET IT.

ANEM - SIMILAR TO THE IN LINE, IN A SMALLER PACKAGE. REMOVE THE COVER TO ACCESS SURFACE MOUNT POTS TO ALLOW FOR LEVEL ADJUSTMENTS. PROCESSING LEVEL CAN BE SELECTED VIA EXTERNAL MICRO SWITCH.

**MINI COOPER SHOWN WITH
CP-5M UNIVERSAL LIP MOUNT
ON THE DOOR EDGE.**

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259

Footprint: 1.1" x .75"

Max Antenna: 40"

For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259

COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"

Max Antenna: 60"

For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259

COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1"

Max antenna: 80"

Life is a JOURNEY. Enjoy the ride!

COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Length: 8.75" • Conn: SMA

Maldol MH-209 (BNC Conn) **MH-209SMA** (SMA Conn) **2M/70CM DUAL-BAND HT ANTENNAS**
3" length, soft rubber cover. Good performance in a small package!

COMET NEW! CSB750A DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42" • Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB770A DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

COMET NEW! CSB790A DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

Maldol AX-50 DUAL-BAND 2M/440MHZ

Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

Maldol AX-75 DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

Maldol AX-95 DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

COMET B-10 / B-10NMO DUAL-BAND 2M/440MHZ

Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259, B-10NMO - NMO style • Max Pwr: 50W

COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHZ

Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: SBB-2, PL-259 • SBB-2NMO NMO style • Max Pwr: 50W

Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHZ

Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29" • Conn: EX-107RB PL-259 • EX-107RBNMO NMO style • Max Pwr: 100W

COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHZ W/FOLD-OVER

Gain & Wave: 146MHz 4.5dBi 5/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

COMET
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

Life is a JOURNEY Enjoy the ride!

Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA

Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA

COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA

Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHZ WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 VSWR • Length: 37" • Conn: PL-259 or NMO style • Max Power: 50W FM

COMET SBB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 2.15dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 61" • Conn: PL-259 • Max Pwr: 120W

COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10M 120W SSB 6M/2M/70cm 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA • 80/20/17/40/15/10/6/2M/70cm Mobile antenna with fold-over hinge • Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • *L-14 optional 20M coil • *L-18 optional 17M coil • *L-3.5 optional 80/75M coil • Features: • 6M/2M/70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in • Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

UHV-6 in fold-over position.

Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc... SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

Maldol HMC-6S • 40/20/15/10/6/2M/440MHZ MOBILE ANTENNA WITH FOLD-OVER • Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF 6M 1.6:1 or less, 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6M/2M/70cm 150W FM • HMC-7C optional 40M coil

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259

Footprint: 1.1" x .75"

Max Antenna: 40"

For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259

COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"

Max Antenna: 60"

For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259

COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1"

Max antenna: 80"

COMET
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to choose from depending on your vehicle's available mounting space and antenna size.

No holes to drill, held securely in place with set screws and adjust in multiple planes. Attach to virtually any lip edge that is 1/4" thick or less: trunk lids, van doors, SUV doors, truck doors, hoods, etc...

Deluxe low loss cable assy included for easy entry thru the weather seal without causing water leaks, wind noise, and/or cable damage.

Max power: HF 200W
VHF 75W
UHF 50W

For small antennas & limited space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259

Footprint: 1.1" x .75"
(Less than 1 sq inch!)
Max Antenna: 40"

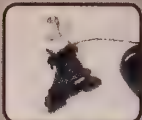


For medium size antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259
COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"
Max Antenna: 60"

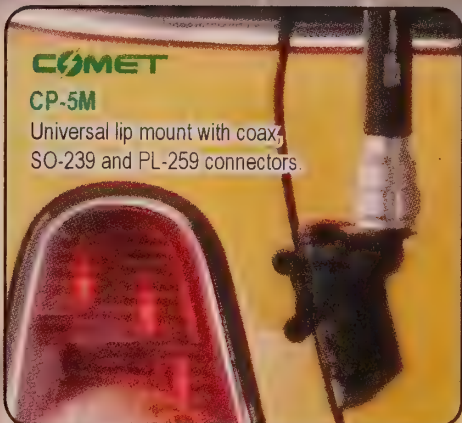


For tall or multi-band HF antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259
COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1"
Max antenna: 80"



COMET
CP-5M

Universal lip mount with coax,
SO-239 and PL-259 connectors.

Life is a JOURNEY

Enjoy the ride!

Combine the coax style and length you need with a bracket from below.
(assemblies also available with N-connectors)



COMET
3D5M / 3D4M

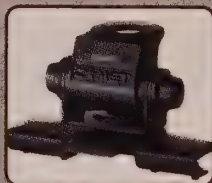
Standard low loss cable assy.
Gold plated SO-239 / PL-259
connectors.
3D5M length 16' 6"
3D4M length 13'



COMET
CK-3M5 / CK-3M

Deluxe low loss cable assy.
Includes 18" of mini RG-188AU type
coax for easy entry from a lip mount
without causing water leaks,
wind noise or coax damage.
CK-3M5 length: 16' 6"
CK-3M length: 9' 9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.



COMET
RS-840

Heavy-duty, 2 adjustment
planes. For HF and heavier
antennas up to 80".



COMET
RS-730

Heavy-duty, 4 adjustment
planes, up to 60" antenna.



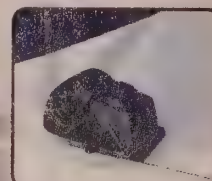
COMET
RS-720 / RS-720NMO

Med-duty, 3 adj planes, 60" ant.
RS-720: Accepts SO-239 conn
RS-720NMO: Accepts NMO conn



COMET
RS-520

Light-duty, 3 adjustment
planes, up to 45" antenna.



Maldol
MK-30H

12VDC motorized mount. Mounts
to vertical or horizontal door lip.
Up to 70"/19 oz. antenna.



Maldol
EM-B80

Light-duty, 2 adjustment
planes, up to 40" antenna.



COMET
GRB-5M

Trunk lip mount, low-profile, black
anodized stainless steel. Offset washers
provide up to 17 deg. vertical adjustment

of antenna. 16' 9" of deluxe cable included, 18" of mini RG-188AU
style coax for easy entry thru the weatherseal. Gold-plated SO-239/
PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount antennas • No holes to drill • Above roof line • Easy access • When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.



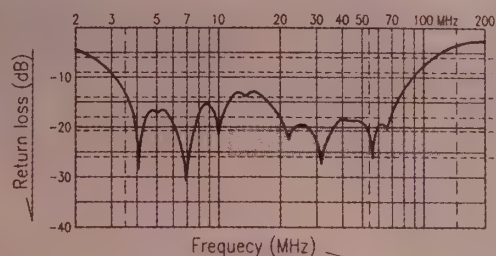
COMET

and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.
Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

COMET
and **Maldol**
Base Antennas



CHA-250B VSWR graph

"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" - Dan Dankert N6PEQ

COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA

A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWR is under 1.5:1 from 3.5-57MHz! • TX: 3.5MHz - 57MHz • RX: 2.0 - 90MHz • VSWR is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM • Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" - 2" dia. • Max wind speed: 67MPH

COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7' 11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10' 2" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5' 11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

Gain & Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10' 2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA

80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side. • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M-70cm: 150W FM • Conn: SO-239 • Height: Only 8' 6" • Weight: 5lbs. 7ozs.

COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

BEST SELLER! • Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 16' 9" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

COMET NEW H-422 QUAD-BAND HF DIPOLE

Compact 40/20/15/10M "V" or Horizontal Dipole • Max power 1kW SSB • Length "V" Dipole: 24' 3" • Horizontal Dipole: 33' 10" • Shipping length: 79" • Weight: 11 lbs 14 ozs • Wind Load: 3.02 sq feet • Required mast size: 1.5" - 2.5" diameter • CBL-2000 2kW Balun included • Simple installation, band tuning and profile change

COMET
and **Maldol** Antennas

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
 High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Ruggedized Base/Repeater Antennas X50NA - X30A

X50NA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X50 is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency: 2m: 144-148 MHz,
 70cm: 440-450 MHz
 Gain: 2m: 4.5 dB,
 70cm: 7.2 dB
 Power: 200 watts[#]
 Wind Rating: 135 MPH (no ice)
 Height: 5.6 feet

X30A

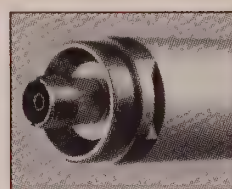
The X30A works well in areas where height and/or antenna restrictions are an issue.

Features

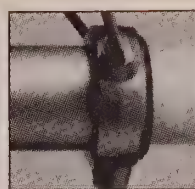
- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

Specifications:

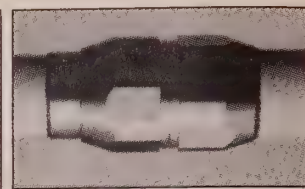
Frequency: 2m: 144-148 MHz
 70cm: 440-450 MHz
 Gain: 2m: 3.0 dB
 70cm: 5.5 dB
 Power: 150 watts[#]
 Wind Rating: 135 MPH (no ice)
 Height: 4.5 feet



COAX CONNECTION
AT BASE END



HEAVY DUTY BASE/
RADIAL ASSEMBLY



STRONG JOINT
COUPLINGS

Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS [#]	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP22E ¹	144	6.5	200	UHF	9.0	70
CP62 ^{1,9}	6m	5.5	200	UHF	22	80
F22A	144	6.7	200	UHF	10.5	112
F23H ⁸	144-174	7.8	350	UHF	15.0	90
F718A	440	11.5	250	N	15.0	90
F1230A ¹¹	1.2 GHz	13.8	100	N	12.0	112
G200 [*]	2.4 GHz	11 dBi	—	N	4.8	135

^{*}Special Order

Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS [#]	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP610 ^{1,9}	6m/10m	5.5/3.4	200	UHF	22	80
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510HDM	144/440	8.3/11.7	330/250	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90

Tri-Band Base/Repeater Antennas

Min. requirement: 1.5" x 1.5"

MODEL	BAND (MHz)	GAIN (dB)	WATTS [#]	CONN.	HT. FT.	RATED WIND MPH (No Ice)
V2000A ^{3,5}	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A ⁴	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

NOTES: ¹ Heavy duty aluminum construction.

² X510NJ: 144-147/430-440 MHz.

³ 1/4λ rated in dBi.

⁴ 2m: 146-148; 100 watts

⁵ 52-54 MHz only. Tunable.

⁶ Tunable for 10MHz BW.

⁷ 1.25 Bandwidth.

⁸ Tunable 144-174 with cutting chart.

⁹ 500W P.E.P./200W FM

[#] Power rating should be reduced in repeater service.

BAND: 144=144-148 MHz, 222=222-225 MHz.
 420=420-430 MHz, 430=430-440 MHz.
 440=440-450 MHz, 1240=1240-1300 MHz.

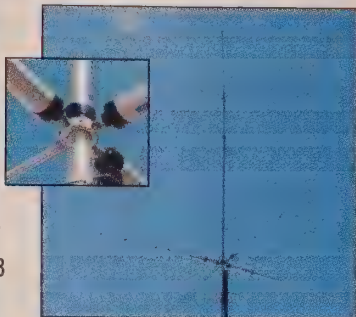
MULTIBAND VERTICAL & YAGI ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Vertical Antennas

CP725H Quad Band

Diamond's **CP725H** is a four band (6M, 10M, 15M and 40M) vertical antenna with trap radials. Its light weight, 6.6 pounds, makes it very manageable during the installation process and will allow for a simple mast solution. It is 11.8 feet tall with 71" long radials that can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure. Because of its light weight, and the ability to concentrate radials on one side, the CP725H could be used in an antenna restricted situation where the mast was lowered on its side during daylight and raised while operating during the evening.



BB7V Multiband

Diamond's **BB7V** multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.



CP6AR Multiband HF

Diamond's **CP6AR** is a multi-band trap-vertical antenna for HF bands, covering the 75*, 40*, 20, 15, 10 and 6m amateur bands. Made from heavy duty aluminum, the CP6AR assembles easily and yields excellent performance and reliability from a compact base station antenna. Its compact size allows for many mounting options. Minimum 15' diameter required for mounting radials. No additional ground radials required. Use an antenna tuner for increased bandwidth.

Band / MHz	Approx. Bandwidth*
75m / 3.8 MHz	20KHz
40m / 7 MHz	40KHz
20m / 14 MHz	100KHz
15m / 21 MHz	200KHz
10m / 28-29 MHz	500KHz
6m / 50 MHz	1.5MHz

*1.8:1 SWR or better, 2.1:1 SWR or better on 75m.

Vertical Antennas

Mast requirement: 1.4"-2.4"

MODEL	FREQ (MHz)	IMPED	WATTS (PEP)	CONN	BOOM LNTH.	WEIGHT
BB7V	2-30 (W/ TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.
CP725H	6m/10m/15m/40m	50Ω	500/500/400/200	UHF	11.8'	6.6 lbs.
CP5H	6m/10m/15m/20m/40m	50Ω	500/500/400/400/200	UHF	11.8'	6.6 lbs.
CP6AR	75/40/20/15/10/6m	50Ω	200	UHF	15.1'	9.9 lbs.
CP62	6m	50Ω	500W SSB/200W FM	UHF	22'	4.5 lbs.
CP610	6m/10m	50Ω	200	UHF	22'	4.5 lbs.

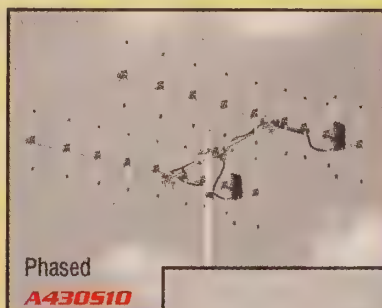
Yagi Antennas

- High gain
- Quality construction
- Easy assembly
- Great for base or portable use
- Factory adjusted - no tuning required

Vertical Antennas

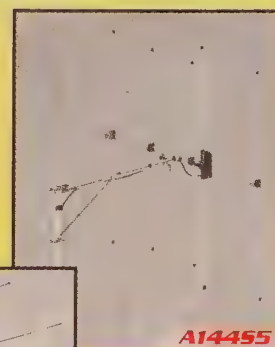
Mast requirement: 1.4"-2.4"

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element

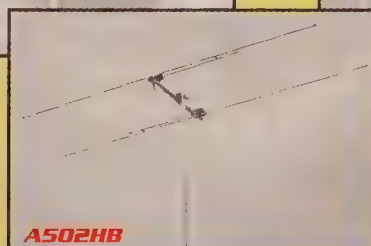


Phased

A430S10



A144S5



A502HB

See Price Guide for additional models and pricing. ♦ Indicates New Item.

Diamond Antenna Division of RF Parts Co. Tel: (770) 614-7443 • FAX: (770) 614-7480 • www.diamondantenna.net

DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

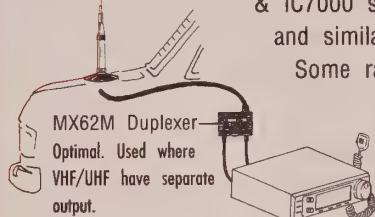
Maximum Performance Without Compromise

HV7A Mobile Antenna System

For New HF/VHF transceivers

(Such as: IC706 & IC7000 series,
FT100, FT857 & FT8900R)The HV7A has 5 band capability: 70cm, 2m, 6m,
plus 2 HF bands through use of loading coils.Foldover feature allows for easy access into low
over-head buildings. Ideal for users of IC706
& IC7000 series, FT100, FT857, FT8900R
and similar radios.

Some radios may require a duplexer.

MX62M Duplexer
Optimal. Used where
VHF/UHF have separate
output.Recommended Antenna Mounts:
K400C, K400S, K600S or K600M

Bands Supplied: 10m/6m/2m/70cm
Power, PEP: HF 120w/VHF 200w
Mount Connection: UHF
Length: 54"
SWR: 1.5:1 nominal
Opt. Loading Coils: HVC7 40m
 HVC14 20m
 HVC18 17m
 HVC21 15m



FOLD-OVER

One-Touch Fold-Over Feature.**

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	HT. IN.	ELEMENT PHASING 1/4λ rated in dBi.
M285S*10	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO*10	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
HF6FX*6	6m	2.15	250	UHF	40	1/4λ
M685S*6	6m	2.15	200	UHF	52.4	1/4λ
M685SNMO*6	6m	2.15	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ+1/4λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200*	2.46Hz	7	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ
MR73SMA	2m/70cm	2.15/3.4	10	Mini MAG	19.5	1/4λ, 1/2λ
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO*6	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA ⁷	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO ⁸	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ+1/2λ, 3-5/8λ
SG7000A*6	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ, 3-5/8λ
CR320A*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ, 1/2λ
CR320BNMO*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B*6,9	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ, 1/2λ+1/4λ
CR627BNMO*6,9	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
CR8900A*6, 11	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ 1/2λ, 2-5/8λ

6 Grounding required

9 52-54MHz only

** Fold-Over not available on
CR-270A, M285, M285SNMO,
M685, M685SNMO, MG200,
MR77, MR77SMA,
NR72BNMO, and NR73BNMO7 NR770HB same specs but in
black finish.10 Tunable from 140-174MHz
11 FM only8 NR770HNMO same specs but
in black finish.* Not recommended for
Magnet Mount

SG7900A / SG7900ANMO

CR627B / CR627BNMO

SG7500A / SG7500NMO

NR770HA / NR770HNMO / NR770HB / NR770HBNMO

CR320A / CR320BNMO

NR140BNMO

NR73BNMO

NR124NMO

HT/SCANNER ANTENNAS

HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

SRH320A SMA

2m/1-1/4m/70cm tri-band HT antenna. Flexible.
13 3/4". 10 watts, +3dBR.

SRH805 SMA

2m/70cm/23cm tri-band HT antenna.
1.75", 10 watts.

SRH815 SMA

2m/70cm/23cm tri-band HT antenna.
Flexible. 6", 6 watts, +3dBR.

SRH940 SMA

6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts,
+2.15dBi. 1/4λ 50-144MHz, 1/2λ 440MHz.

SRH789 SMA
RH789 BNC

Adjustable 1/4λ 93-300MHz; 5/8λ 300-1100MHz,
7 3/4"-32" +9dBR.

RH951S BNC

High gain 2m/70cm/23cm slim tri-band HT antenna.
Flexible. 14" (Wide band receive), +6dBR.

RH3 BNC

2m/70cm dual band "Black Bullet" HT antenna. 1.75". 120-
900 receive.

RH77CA BNC

High gain 2m/70cm dual band HT antenna.
Receive range to 900 MHz. 15", +6dBR.

SRH77CA SMA

High gain 2m/70cm dual band flexible HT antenna. 15",
10 watts, +6dBR.

SRHF40 SMA
RHF40 BNC

Super flexible, high gain 2m/70cm dual band HT antenna.
Receive range to 900 MHz. 15", +6dBR.

RH205 BNC

2m HT antenna, telescopic, 5/8λ fully extended, 47.5";
1/4λ retracted, 9", +9dBR.

RH707 BNC

2m/70cm dual-band tiltable whip - HT antenna.
8 1/4", +3dBR.

SRH999 SMA

6m/2m/70cm/23cm quad-band HT antenna. Flexible.
19.5", 10 watts, +6dBR.

SRH519 SMA
RH519 BNC

2m/70cm slim dual-band HT antenna.
Flexible. 8", 10 watts, +3dBR.

NOTES: dBR refers to Relative Gain increase over
typical factory supplied antenna.

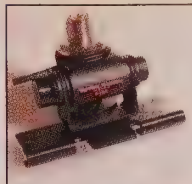
Mobile Discone Antenna

The D220 mobile discone antenna offers outstanding broadband reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive:	100 to 1600MHz
Transmit:	144, 440, 902, 1200MHz
Gain:	2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz
Power:	50watts PEP
Impedance:	50 ohms
VSWR:	less than 1.5:1
Type:	1/2 wave 144MHz, 2 x 5/8 wave 440MHz
Length:	35.5" / .90m
Weight:	.85 pounds / 385g
Connector:	UHF / PL259
Mounts:	K400 and K600 series



PREMIUM ANTENNA MOUNTS

**K400 Series Heavy Duty
Hatchback/Door/Trunk Lid Mount**

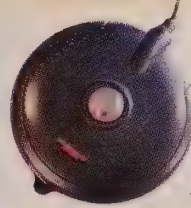
Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

- K400C*** SO-239 base, 6.5' RG-316/B, PL-259
K400CNMO* NMO base, 6.5' RG-316/B, PL-259
K400-3/8C* 3/8X24 base, 6.5' RG-316/B, PL-259
K400S¹ SO-239 base, 13.5' RG-316/B, SMA/PL-259
K400SNMO¹ NMO base, 13.5' RG-316/B, SMA/PL-259

**K412 Series Deluxe
Hatchback/Door/Trunk Lid Mount**

Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45". Position adjusting knob.

- K412C*** SO-239 base, 6.5', PL-259
K412CNMO* NMO base, 6.5', PL-259
K412S¹ SO-239 base, 13.5', SMA/PL-259
K412SNMO¹ NMO base, 13.5', SMA/PL-259
 * Use C110 Cable Assembly for front radio installations.

**K702M Deluxe
Low Profile Magnet Mount**

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4"h. For VHF/UHF antennas up to 50"h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

Heavy Duty Magnet Mount

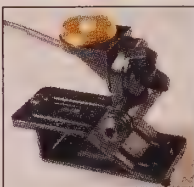
2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45".



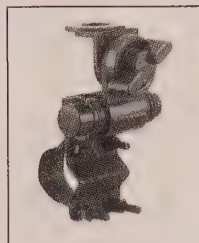
- SPM35** SO-239 mount, with PL-259 connector.
SPMNMO NMO mount, with PL-259 connector.
DPK4NM-N Type-N mount, with Type-N connector.

**K515 Series
Universal Luggage Rack Mount**

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.

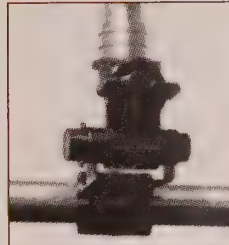


- K515S¹** SO-239 base, 13.5' RG316, SMA/PL-259
K515SNMO¹ NMO base, 13.5' RG316, SMA/PL-259

**K550
Luggage Rack Mount**

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

- K550KM** SO-239 base, 13' RG58/U, PL-259
K550 Mount Only

K540 Mirror/Luggage Rack Mount

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into horizontal position.

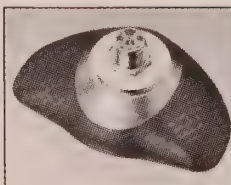
- K540KM** SO-239 base, 13' RG58/U, PL-259
K540 Mount Only

CRM Mirror/Luggage Rack Mount

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.

**K600
Variable Angle Trunk Mount**

Deluxe aerodynamic trunk mount. Vertical adjustment 0-90°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.



- K600M** SO-239 base, 16.5' two-step RG-188 Teflon® + 10' 5D, PL-259
K600S¹ SO-239 base, 13.5' RG-316 Teflon®, SMA/PL-259

**HRK5
Adhesive Backed Mount**

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included.

Recommended antennas: NR770HA and NR770HB.

**K9000 Motorized Mount**

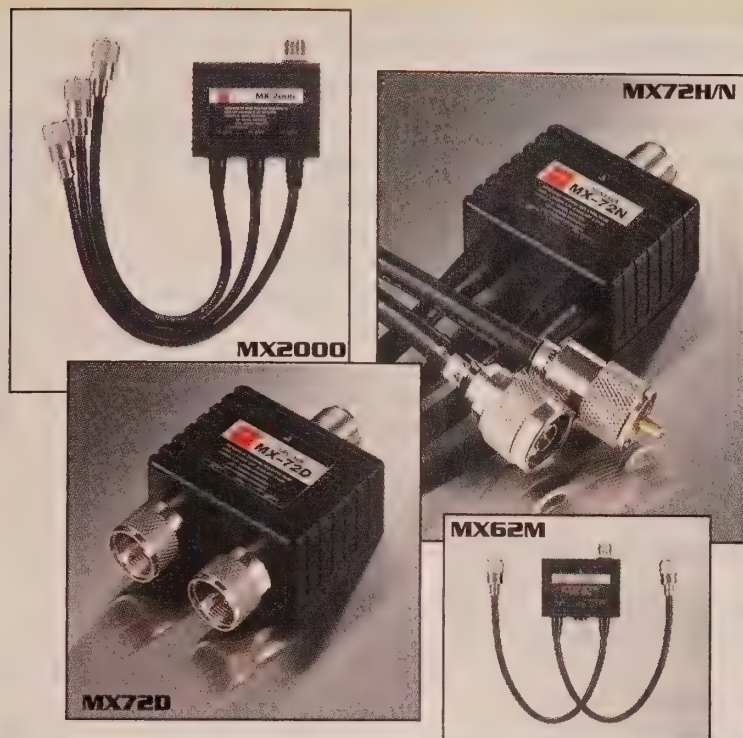
Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213NMO

- K9000TM** Trunk/Hatchback Mount
K9000LRM Luggage Rack Mount
K9000LRMO Luggage Rack Mount - Oversize/K515 style clamp.

* Add C110 Cable Assembly for front radio installations. ¹ Includes SMA to PL259 adapter.

CABLE ASSEMBLIES - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Duplexers & Triplexers



MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY								
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS)	400	150	100					
WATTS P.E.P.	1000	400	250	800	800	500	600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL		60dB			60dB		50dB	
VSWR		1.2:1			1.2:1		1.2:1	
CONNECTOR COMPLEMENT	MIX 144 430 (M) (M)	MIX 144 430 (M) (M)	MIX 144 430 (M) (M)	MIX 50 144 430 (M) (M) (M)			MIX HF VHF (M) (M)	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

More duplexers/triplexers available on website.

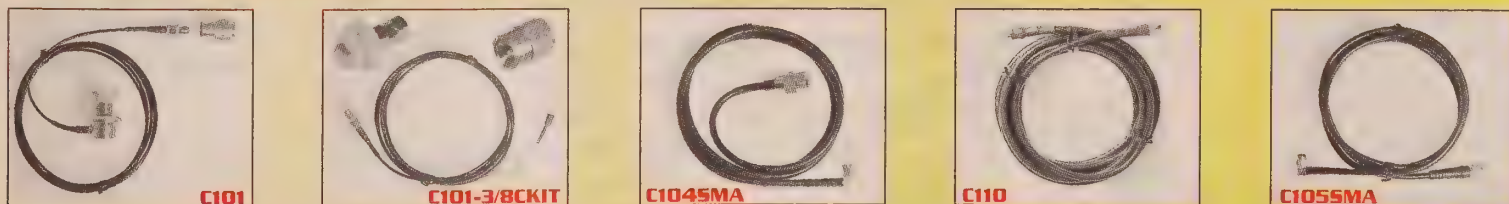
Dummy Loads, Lightning Protection & Coaxial Switches



MODEL	DESCRIPTION
SP1000	Lightning surge protector, DC-1000 MHz, 400w, SO-239/SO-239
SP3000	Lightning surge protector, DC-3000 MHz, 200w, Type-N (F)
SP3000W	Lightning surge protector, DC-3000 MHz, 200w, Type-N (F), Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW max*, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW max*, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239*
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak, Type-N
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak, PL-259

* See our website for full specifications

Cable Assemblies



C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO Same as C101 with NMO base. For Diamond's K-Series mounts.

C213SMA Same as C101, 13.5' RG-316 Teflon® cable, SMA (M)

C213SNMO Same as C101NMO, 13.5' RG-316 Teflon® cable

C101-3/8C Same as C101, 6.5' RG-316 Teflon® cable

C101-3/8CKIT Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware and C101-3/8C cable assembly

C1045MA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC 10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.

C110SMA Similar to C110BNC, terminates in SMA-male.

C211 SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

C1055MA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

LARSEN - The Amateur's Professional

2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

NMO2/70SH \$49.99

Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB
Height: 19"
Whip: WNM02/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO2/70B \$79.99

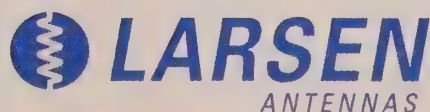
Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.

Tri-Band Scanner Antenna

NMO150/450/800 \$32.99

Freq: 150-165/450-470/806-940 MHz
Gain: -7/0/1 dBd
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"



A Pulse Brand
3611 NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
360-944-7556 / 800-426-1656
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.

KG2/70CXPL \$129.99

Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Conn: PL-259
Height: 32.75"

* Ground plane required for gain.



Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

KG144UDPL \$89.99

Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna with coax and connector



Base Station Antennas

Larsen manufactures a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.

BSAK \$56.99

Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51.75"



Mounting Pipe Not Included

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Larsen portables. Full soldered connections and silver-plated components improve electrical efficiency. Double spring BNCs reduce wear on the mount.

KD42/70 \$42.99

Freq: 144-148/440-450 MHz
Gain: Unity
Power: 25 Watts
Type: VHF: Loaded 1/4 Wave
UHF: 1/4 Wave
Conn: BNC
Height: 9"

Impedance matching transformer provides high Q and deeper resonance.



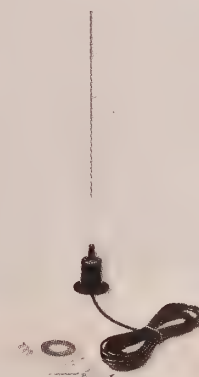
Gift Certificates . . . available from all AES locations

OM150CK \$69.99

Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.

Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U
Conn: PL-259

* Ground plane required for gain.



Mobile GPS Antenna

GPSNMO02 \$69.99

Freq: 1575.4 MHz
Gain: 5 dBic/28 ± 2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO
Height: 1.3"
Diameter: 3"



Hear The Difference!

Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO27C (Chrome) \$45.99

NMO27B (Black) \$49.99

Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490

NMO50C (Chrome) \$45.99

NMO50B (Black) \$49.99

Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490

NMOQSPEC (Chrome) \$17.99

NMOQSPECB (Black) \$24.99

NMOQSPECK (3/4" Kit Chrome) C/O \$29.99

Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200

NMO150C (Chrome) \$29.99

NMO150B (Black) \$29.99

Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 Wave
Height: 51.5"
Whip: W490

NMO440C (Chrome) \$34.99

Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154

NMO900B (Black) \$42.99

Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B.100, enclosed coil

Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

NMOK \$24.99

Motorola-style Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259

NMOTLP \$34.99

Motorola-style Low Profile
Trunk Lip Bracket, Black
Size: 1.75" x 1.75"
Coax: 17' RG-58A/U
Conn: PL-259

NMOMMR \$34.99

Motorola-style Round Magnetic Mount
Size: 3.5" Round
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs.

POMM \$46.99

SO-239 female type magnetic mount
Size: 3.5" x 3" rectangle
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs

NMOKHFUD . . . \$15.99

NMO style roof mount
Size: 3/4" hole
Coax: 17' RG-58A/U
Dual Shield
Conn: Not Included

TMB34 (Chrome) . . . \$6.99

TMB34B (Black) . . . \$9.99

Trunk gutter bracket, 3/4" hole.
Screws included
Size: 2" x 2"

Parts and Accessories

W490 \$10.99

Chrome .100 tapered replacement whip for 144 MHz (49")

W490B \$14.99

Black .100 tapered replacement whip for 144 MHz (49")

WKG2/70 \$32.99

Black .100 tapered replacement whip with open coil for KG2/70 (approx. 33")

W2/70B \$32.99

Black .100 tapered replacement whip for NMO2/70B (approx. 31")

RGSS \$6.99

3 SuperSeal NMO Gaskets

SPRING \$14.99

Shock Spring

HP34 \$3.99

(5) 3/4" Rubber hole plugs

KGREINSTALL \$10.99

Reinstall Kit for KGs

NMOCAPB \$6.99

Black NMO Rain Cap

LARSEN
ANTENNAS

A Pulse Brand
3611 NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
360-944-7556 / 800-426-1656
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com



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SEE THE LATEST DEALS AND NEW PRODUCTS

Unity Gain

THF . . . \$26.99

VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector

UHT-1 . . . **Closeout \$9.99**

VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U

UGM . . . \$23.99

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



Collinear

Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB . . . \$17.99

- Power rating: 100 watts
- 3/8 x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . \$29.99

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



Collinear High Gain

Mobile Antenna

CG-144 5.2 dB 6 MHz BW . . . \$39.99

CG-220 5.2 dB 4 MHz BW . . . \$39.99

- Power rating: 200 watts
- 3/8 x24 thread
- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz BW . . \$59.99

CGT-220 5.2 dB 4 MHz BW . . \$49.99

- Coil same as above
- Swivel ball for vertical positioning
- Trunk mount base



MKR-2 Radial Kit . . . \$25.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded

New-Tronics Antenna Corporation

225 Van Story Road
Mineral Wells, Texas 76067-9563

VHF and UHF Mobile Antennas

MX Series NMO Magnetic Mount

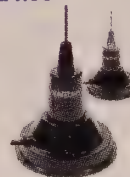
Antenna

MX-2 144 MHz 3.4 dB . . \$39.99

MX-220 220 MHz 3.4 dB . . \$39.99

MX-440 440 MHz 5.0 dB C/O \$24.99

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector



MX-2B 144 MHz 3.4 dB . . \$44.99

MX-440B 440 MHz 5.0 dB C/O \$29.99

- Same as above but all black coil

BBG Series NMO Swivel Ball

& Spring Antenna

BBG-144 3.4 dB . . \$49.99

BBG-440-5 5.0 dB C/O \$24.99

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . \$57.99

BBGT-440-5 5.0 dB C/O \$24.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



Dual Band 2 meter/ 70cm

Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . \$36.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270 . . . \$64.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . \$27.99

LMG-440-5 5.0 dB gain C/O \$12.99

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

LMC-144 3.4 dB gain . . \$25.99

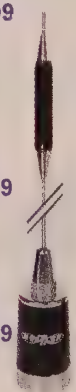
LMC-440-5 5.0 dB gain C/O \$12.99

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

LMB-144 3.4 dB gain . . \$23.99

LMB-440-5 5.0 dB gain C/O \$14.99

- Power rating: 200 watts
- NMO style coil
- Black coil

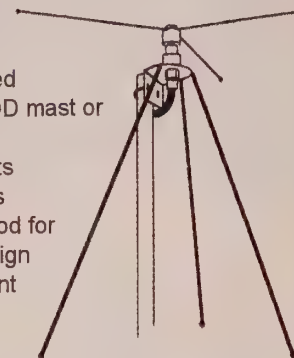


Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX . . . \$26.99

- 40 - 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB . . . \$39.99

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB . . . \$21.99

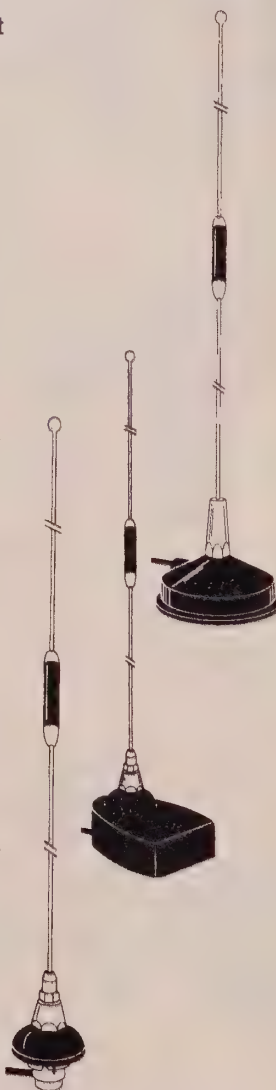
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB . . . \$25.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB . . . \$24.99

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector



Phone: 940.325.1386

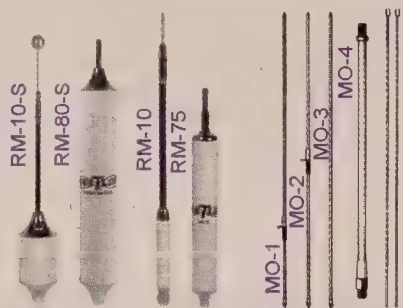
Toll Free: 877.994.9499

Fax: 940.325.5077

Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	\$19.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	\$19.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	\$19.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	\$19.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	\$27.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	\$27.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	\$29.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	\$29.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	\$32.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	\$32.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	\$32.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	\$27.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	\$27.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	\$30.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	\$34.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	\$43.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	\$59.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	\$59.99



Mobile HF Antennas Hustler Masts

MO-1 \$39.99

Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2 \$39.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3 \$29.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

MO-4 \$24.99

Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Quick Disconnect

QD-2 \$25.99

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



VP-1 \$8.99

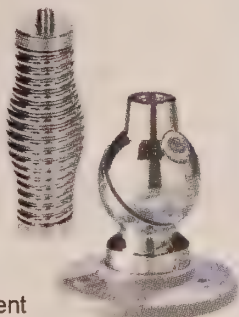
Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Professional Chrome Series

C-32 \$22.99

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.

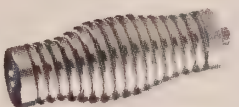


C-30 \$16.99

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas

C-29 \$22.99

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



Resonator Spring

RSS-2 \$14.99

Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



Magnet Mount \$24.99

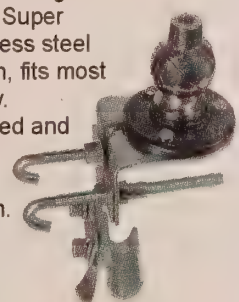
MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



Bumper Mount BM-1 \$27.99

Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1 \$56.99

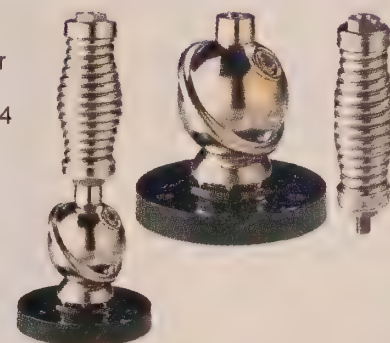
Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2 \$33.99

Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3 \$31.99

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



HLM \$26.99

Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8" x 24 antennas. RG58/U coax with PL-259 connector.



TLM \$25.99

Trunk lip mount, which accepts 3/8" x 24 antennas. RG58/U coax with PL-259 connector.



HOT \$27.99

Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8" x 24 antennas. RG58/Ucoax with PL-259 connector.



RVM \$24.99

Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8" x 24 antennas. RG58/U coax with PL-259 connector.





Model G3-144 . . . \$79.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 7' 5

- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 3/4

- Construction: High strength



Model
G3-144

VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144 . . . \$199.99

Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL

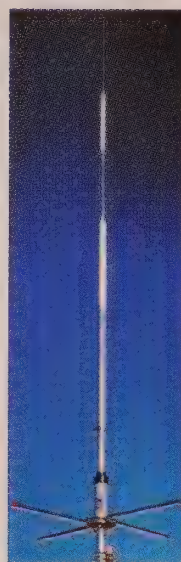
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 15' 4

- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 3/4

- Construction: High strength fiberglass & aluminum.



G7-144

Model G6-270R . . . \$199.99 Dual band 2 Meter & 440 MHz

ELECTRICAL

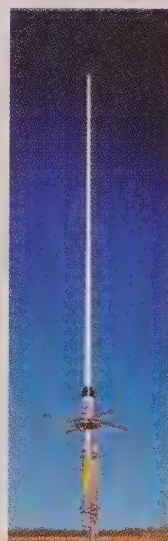
- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz - 2 Meters 10 MHz - 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 7' 6

- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4

- Construction: one piece radome



G6-270R

Model G6-144B . . . \$149.99 Two Meter

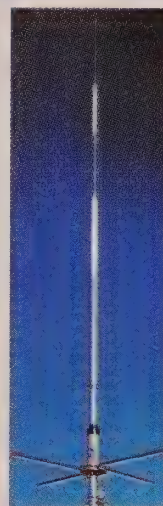
ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 9' 9

- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4



G6-144B

Model G6-440 . . . \$189.99

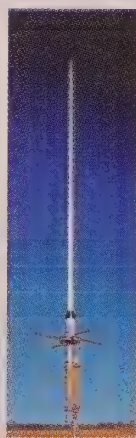
ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 7' 3

- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 3/4



G6-440

Model G7-220 . . . \$174.99

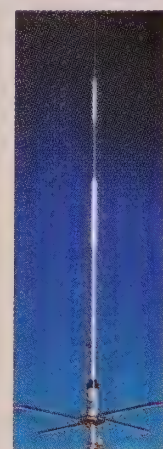
ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 10' 2

- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 3/4



G7-220

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts. Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded - low VSWR at band edges
- Power capability - full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV . . . \$209.99

Bands 10-15-20-30-40 & 75 or 80 meters
Length/weight 24 ft. / 16.5 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 5-BTV . . . \$189.99

Bands 10-15-20-40 & 75 or 80 meters
Length/weight 25 ft. 1 in. / 16.5 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV . . . \$159.99

Bands 10-15-20-40 meters
Length/weight 21 ft. 5 in. / 15 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 28 lbs. @ 70 mph.
Power capability Full legal limit SSB/CW
VSWR at resonance 1.15 to 1 or better

Model 30-MTK . . . \$49.99

30 meter add on kit for the 4 and 5 BTV

Spirit Series - RepeaterAntenna

Hustler's omnidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. Great for your club or tower use. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency. Custom frequencies available, call for a quote.



New-Tronics Antenna Corporation
225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.325.5077

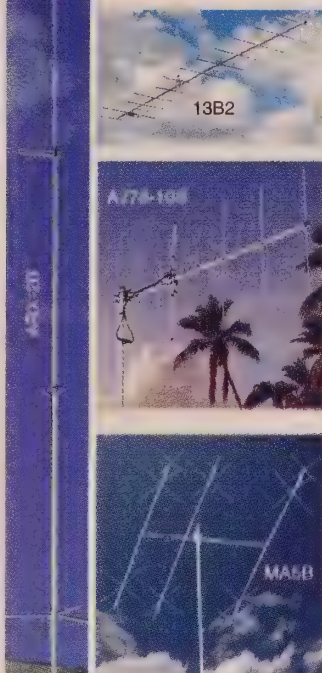
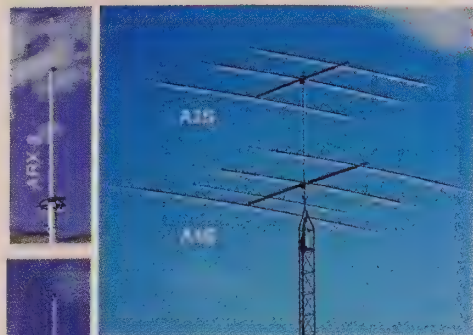
www.new-tronics.com



CUSHCRAFT
AMATEUR RADIO ANTENNAS

AMATEUR RADIO ANTENNAS

HF or VHF/UHF... the right antennas for every Ham since 1950



DIPOLE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	LENGTH (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE (\$)
SINGLE BAND								
D-40	40M	UNITY	42.25	1500	1.5-2	1.3	12	399.99
MULTIBAND								
D-4	40/20/15/10M	UNITY	35.8	1500	1.5-2	1.3	13	419.99
D-3	20/15/10M	UNITY	25.8	1500	1.5-2	0.9	9	369.99
D-3W	30/17/12M	UNITY	34	1500	1.5-2	0.9	11	369.99

For detailed information you can download Cushcraft Instruction Manuals from www.mfjenterprises.com

VERTICAL ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	HEIGHT (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE (\$)
SINGLE BAND								
MA-160V	160M	0	30-36	1500	1.5	>1	12	299.99
AR-10	10M	3	17.6	1000	1-1.25	1.68	4	109.99
AR-6	6M	3	10.1	1000	1-1.25	0.37	2.5	99.99
ARX-2B	135-160	7	14	1000	1-1.25	0.5	6	109.99
ARX-2	135-160	5	9.3	1000	1-1.25	0.4	4	79.99
AR-2	135-160	3	3.9	1000	1-1.25	0.21	1.5	64.99
ARX-220B	222-225	7	9.3	500	1-1.25	0.3	5	114.99
ARX-450B	435-450	7	4.9	500	0.75-0.88	0.2	1	99.99
AR-450	440-460	3	1.4	500	0.75-0.88	0.1	1	47.99
MULTIBAND								
MA-8040V	80/40M	0/2	23-27	1500	1.5	>1	9	319.99
R-8	40/30/20/17/15/12/10/6M	3	28.5	1500	2	2.5	23	539.99
R-6000	20/17/15/12/10/6M	3	19	1500	1.5-1.75	1.5	12.5	429.99
MA-6VA	20/17/15/12/10/6M	1-2	14.7	250	1.25-2	0.82	6.9	339.99
MA-5VA	20/17/15/12/10M	1-2	14.7	250	1.25-2	0.82	6.5	299.99
AR-270B	2M/430-450	5.5/7.5	7.7	250	1.25-2	0.47	2.4	189.99
AR-270	2M/430-450	3/5.5	3.75	250	1.25-2	0.27	2	129.99

High Performance in all applications / Made in the U.S.A.

BEAM ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	ELEMENTS	GAIN (dBi)	F/B RATIO (dB)	BOOM (FT)	LONGEST ELE (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)	PRICE (\$)
SINGLE BAND											
XM-240	40M	2	6	20-25	22	43	1500	2.5	5.5	55	999.99
TEN-3	10M	3	8	25	8	18	2000	1.5-2	2	10	299.99
A50-6S	6M	6	11.6	26	20	9.9	1000	1.5-2	4.46	18	399.99
A50-5S	6M	5	10.5	24	12	10.25	1000	1.5-2	2.9	11	199.99
A50-3S	6M	3	8	20	6	9.75	1000	1.5-2	1.8	7	139.99
26B2	2M	26	18.8	26	15	3.3	1500	1.5-2	4.84	21.5	599.99
17B2	144-145	17	18	26	31	3.4	1500	1.5-2	3.9	15.75	369.99
13B2	2M	13	15.8	26	15	3.3	1500	1.5-2	1.8	6.7	249.99
A148-20T	2M	10H/10V	13	24	11	3.4	1000	1.25-2	0.39	7	219.99
A148-10S	2M	10	13.2	24	12	3.4	1000	1.25-2	1.21	6	139.99
124WB	2M	4	10.2	19	4	3.3	1500	1.25-2	0.34	3	109.99
A148-3S	2M	3	7.8	18	2.8	3.4	1000	1.25-2	0.27	1.5	69.99
224WB	222-225	4	10.2	20	3	2.2	1500	1.25-2	0.23	1.7	99.99
719B	430-450	19	15.5	25	13.5	13.75	2000	1.25-2	1.2	5.6	249.99
A430-11S	430-440	11	13.2	20	4.6	1.16	350	1.25-1.5	0.42	4	119.99
A449-11S	440-450	11	13.2	20	4.4	1.08	350	1.25-1.5	0.39	4	119.99
A449-6S	440-450	6	10.5	18	2.9	1.08	350	1.25-2	0.3	3	79.99
MULTIBAND											
ASL-2010	20/17/15/12/10M	8	6.4	15-20	18	38	1500	1.5-2	10.1	55	999.99
MA-5B	20/17/15/12/10M	2/1/2/1/2	3.6/1/4.8/1/5.5	22/0/12/0/10	7.3	17.1	1200	1.5	3.2	27	499.99
X-7	20/15/10M	7	12.5	30	18	37	2000	2.5	7.9	60	1099.99
A-4S	20/15/10M	4	8.9	25	18	32	2000	1.25-2	5.5	37	699.99
A-3S	20/15/10M	3	8	25	14	27.75	2000	1.25-2	4.4	27	599.99
A3-WS	17/12M	3	8	25	14	25	2000	1.25-2	4.1	23	499.99
A6270-13S	6M/2M/430-450	3/5/5	8/10/10	20/20/18	7.3	9.75	1000/350/350	1.25-2	2.52	9.5	279.99
A270-10S	2M/440-450	5/5	10/10	20/18	6.2	3.4	350	1.25-2	0.73	1.8	169.99
A270-6S	2M/430-450	3/3	7.8/7.8	20/8	2.8	3.4	350	1.25-2	0.3	1.7	129.99

HF MOBILE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ OR METERS)	BANDWIDTH @ 2:1 SWR	HEIGHT (INCHES)	WATTS (PEP SSB)	MOUNT	WEIGHT (OZS)	PRICE (\$)
COMET - SEE PAGE 65 FOR MORE INFO							
UHV-6	(1)80/(1)20/(1)17 & 40/15/10/6/2M/70CM	-	44 (min) / 78 (max)	120(HF)/100	PL-259	14-19	179.99
HUSTLER - RESONATORS ONLY - SEE PAGE 77 FOR MORE INFO							
RM-80	80M	25-30 KHz	60 + MAST ⁽²⁾	400	3/8" X 24	16.8	32.99
RM-80S	80M	50-60 KHz	62 + MAST ⁽²⁾	1000	3/8" X 24	33.6	59.99
RM-75	75M	25-30 KHz	52 + MAST ⁽²⁾	400	3/8" X 24	16.8	32.99
RM-75S	75M	50-60 KHz	54 + MAST ⁽²⁾	1000	3/8" X 24	33.6	59.99
RM-60	60M	40-50 KHz	58 + MAST ⁽²⁾	400	3/8" X 24	13.44	32.99
RM-40	40M	40-50 KHz	49 + MAST ⁽²⁾	400	3/8" X 24	13.44	29.99
RM-40S	40M	50-80 KHz	49 + MAST ⁽²⁾	1000	3/8" X 24	28.8	43.99
RM-30	30M	50-60 KHz	31 + MAST ⁽²⁾	400	3/8" X 24	13.44	29.99
RM-20	20M	80-100 KHz	31 + MAST ⁽²⁾	400	3/8" X 24	7.36	27.99
RM-20S	20M	100-150 KHz	31 + MAST ⁽²⁾	1000	3/8" X 24	20	34.99
RM-17	17M	120-150 KHz	34 + MAST ⁽²⁾	400	3/8" X 24	7.04	27.99
RM-15	15M	100-150 KHz	33 + MAST ⁽²⁾	400	3/8" X 24	6.72	19.99
RM-15S	15M	150-200 KHz	29 + MAST ⁽²⁾	1000	3/8" X 24	19.2	30.99
RM-12	12M	90-120 KHz	30 + MAST ⁽²⁾	400	3/8" X 24	6.56	19.99
RM-11	11M (CB)	150-250 KHz	24 + MAST ⁽²⁾	400	3/8" X 24	6.56	19.99
RM-11S	11M (CB)	250-400 KHz	30 + MAST ⁽²⁾	1000	3/8" X 24	16	27.99
RM-10	10M	150-250 KHz	23 + MAST ⁽²⁾	400	3/8" X 24	6.56	19.99
RM-10S	10M	250-400 KHz	25 + MAST ⁽²⁾	1000	3/8" X 24	16	27.99
ICOM - SEE PAGE 98 FOR MORE INFO							
AH-2B	40-6M (REQUIRES ICOM AH-4) ⁽³⁾	-	98.4	120	INCLUDED	~160	399.99
LAKEVIEW - SEE PAGE 86 FOR MORE INFO							
9175	75M (3.75 - 4 MHz)	10 KHz	94	600	3/8" X 24	16	39.99
9160	60M	60 KHz	94	600	3/8" X 24	12.8	39.99
9140	40M	60 KHz	94	600	3/8" X 24	11.2	39.99
9130	30M	Entire Band (50 KHz)	94	600	3/8" X 24	10.4	39.99
9120	20M	175 KHz	94	600	3/8" X 24	9.6	39.99
9117	17M	Entire Band (100 KHz)	94	600	3/8" X 24	9.6	39.99
9115	15M	350 KHz	94	600	3/8" X 24	9.6	39.99
9112	12M	Entire Band (100 KHz)	94	600	3/8" X 24	9.6	39.99
9110	10M	1 MHz	94	600	3/8" X 24	9.6	39.99
LARSEN - SEE PAGE 75 FOR MORE INFO							
NMO-27C	10/11M (CB)	-	53	150	NMO	8	45.99
NMO-27B	10/11M (CB)	-	53	150	NMO	8	49.99
MALDOL - SEE PAGE 65 FOR MORE INFO							
HMC-6S	(4)40/20/15/10/6/2M/70CM	-	66	120	PL-259	28	149.99
MFJ - SEE PAGE 86 FOR MORE INFO							
1664	80-6M	-	2' + 4.5' or 10' WHIP	200	3/8" X 24	44.8	169.99
1661	40-6M	-	1' + 4.5' or 10' WHIP	200	3/8" X 24	32.8	139.99
1624	40-6M	-	66	300	3/8" X 24	31.2	89.99
1899T ⁽⁵⁾	80-6M	-	12-65 (telescopic)	25	BNC	7.2	79.99
OUTBACKER - SEE PAGE 87 FOR MORE INFO							
STEALTHPLUS	80/75/40/30/20/17/15/12/10/6/2M	-	36	100	3/8" X 24	23.2	319.99
PERTHPLUS	75/40/30/20/17/15/12/10/6/2M	-	72	150	3/8" X 24	24	329.99
PERTH	75/40/30/20/17/15/12/10M	-	83	150	3/8" X 24	25.6	329.99
OBM (MARINE)	75/40/20/17/10M + ITU Marine	-	67	300	3/8" X 24	37.6	269.99 c/o
OB8TRI	75/40/30/20/17/15/12/10M	-	67 (3 X 22.3")	300	3/8" X 24	31.2	339.99
OB8HP	75/40/30/20/17/15/12/10M	-	67	500	3/8" X 24	34.4	329.99
JOEY ⁽⁵⁾	80/75/40/30/20/17/15/12/10/6/2M	-	30-50 (telescopic)	20	PL-259	16	299.99
TARHEEL - SEE PAGE 86 FOR MORE INFO							
LIL TARHEEL II	80-6M	-	16 Base, 32 Whip	200	3/8" X 24	30.4	379.99
100AHP PACK	80-10M	-	36 Base, 72 Whip	1500	INCLUDED	128	499.99
YAESU - SEE PAGE 86 FOR MORE INFO							
YA-007FG	80-10M (REQUIRES YAESU FC-40) ⁽³⁾	-	80	100	INCLUDED	~90	169.99
ATAS-120	40/20/15/10/6/2M/70CM	-	63	120	PL-259	31.68	299.99
ATAS-25	40/20/15/10/6/2M/70CM	-	84.6 MAX	100(HF) / 50	SO-239 ⁽⁶⁾	32.8	229.99

(1) Requires optional coils to operate on those bands: L-3.5 for 80/75M, L-14 for 20M, L-18 for 17M

(2) Requires a mast sold separately to complete an antenna: MO-1 is 54" length folds over at 15" above base / MO-2 is 54" and folds over at 27" MO-3 is 54" but does not fold over / MO-4 is 22" and has three retuning tip rods included / All masts use 3/8" X 24 thread

(3) Optional tuner or equivalent is required

(4) Requires optional HMC-7C coil to operate on the 40M band

(5) Designed specifically for the Yaesu FT-817 and other QRP portable radios - meant for portable use

(6) Recommended mount for portable use is a camera-type tripod that is not supplied - meant for portable use



HF Mobile Antenna Store



Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI
Browse Our Store On-Line at www.aesham.com

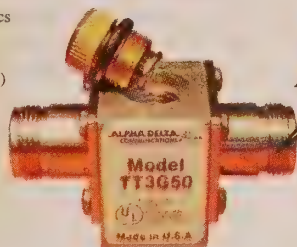
Effective Atmospheric Surge Voltage Protection

Dangerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your ham shack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage ... and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. Effective as these devices are, you still need proper grounding as outlined in the ARRL Handbook.

Lightning Surge/EMI Protectors

The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications Worldwide.



UL LISTED – Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

ATT-3G50
0-3000 MHz; 200W; N Female. \$59.99

ATT-3G50-HP
0-3000 MHz; 2000W; N Female. \$59.99

ATT-3G50U
0-500 MHz; 200W; UHF (SO-239)..... \$49.99

ATT-3G50U-HP
0-500 MHz; 2000W; UHF (SO-239)..... \$49.99

Replacement Arc-Plug Cartridges

ATT/3G50 for ATT3G50 or ATT3G50U.. \$14.99

ATT-HP/3G50HP for ATT3G50-HP and ATT3G50U-HP. \$14.99

Surge Protected Antenna Insulator Kit



DELTA-C – A center insulator and two end insulators for dipoles and wire antennas using coaxial or balanced feed line. Virtually unbreakable UV/RF resistant material with stainless steel hardware, all connections are hard soldered. Handles full legal power. Built-in Arc-Plug® protection..... \$29.99

SEP – Replacement Arc-Plug® cartridge.. \$15.99

DELTA-CIN – End insulator only..... each \$1.99

Lightning Surge Protected Coaxial Switches



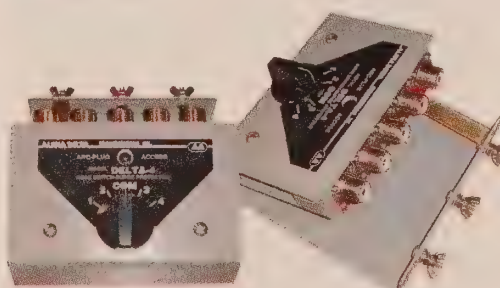
- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Constant impedance micro-strip cavities provide very low-loss and high isolation through UHF
- Precision machined switch mechanism with solid detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas. Reduces antenna interaction, and lightning effects.
- Rated for Full Legal power.

DELTA-2B – 2-position, with SO-239 connectors and rated for operation up to 500 MHz..... \$59.99

DELTA-2B/N – 2-position, with N-type connectors, rated for operation up to 1.3 GHz..... \$75.99

DELTA-4B – 4-position, with SO-239 connectors, rated for operation up to 500 MHz..... \$89.99

DELTA-4B/N – 4-position, with N-type connectors, rated for operation up to 1.3 GHz. ... \$99.99



Desktop Antenna Selector – Retains all the features and specifications of the DELTA-4 (above), in a non-skid desktop console design that will sit on your desk right next to your equipment and function without having to be secured or bolted down. The console features a powder coated steel housing and a solid brass ground bus, with #10 wire attachment hardware across the rear of the housing providing a common ground point for all station equipment and accessories. Four positions, includes Arc-Plug™ module surge protection.

ASC-4B – SO-239, up to 500 MHz..... \$149.99

ASC-4B/N – N-Type, up to 1.3 GHz. . \$159.99

D4 – Replacement Arc-Plug for switches... \$9.99

www.alphadeltacom.com

Limited Space Slopers

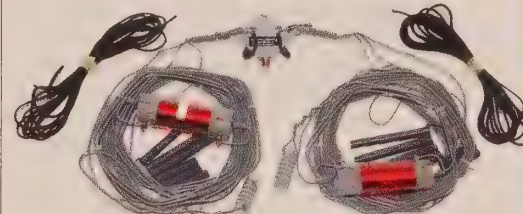


- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

DX-A – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long. \$99.99

DX-B – A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground..... \$109.99

Shortened Multi-banders



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally OR as an inverted V.

DX-CC – 80-40-20-15-10M, 82 ft. long. \$159.99

DX-DD – 80-40M, 82 ft. long. \$129.99

DX-EE – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long. \$139.99

DX-LB – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. \$159.99

DX-LB PLUS – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft. \$189.99

Full-Size Monoband Dipoles



- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

DX-80 – 75/80 meters, 134 ft. long..... \$69.99

DX-40 – 40 meters, 67 ft. long. \$69.99

DX-20 – 20 meters, 34 ft. long. \$69.99

Verticals

AV-18HT Hy-Tower 10/15/20/40/80M Vertical - The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance. **Drop Ship - Truck Collect for Freight..... \$949.99**

Specifications

- Bands: 10, 15, 20, 40 and 80 Meters
- Gain: Unity 20/40/80M; 2 dB on 10/15M
- 80M Bandwidth: 250 kHz @ 2:1 VSWR
- Power: 1500W PEP
- Height: 53 feet
- Weight: 114 pounds
- Wind Survival: 75 MPH

AV-18HT-JR Hy-Tower Jr. - Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swaged at the top. Mounts on 1-1/4 in. pipe..... **\$349.99**

Specifications:

- Bands: 10, 15, 20, 40 and 80 Meters
- Power: 1500W PEP
- Height: 39 ft.
- Weight: 25 pounds
- Survival: Self-supporting up to 40 mph
- Mast Size: 1-1/4 in.

AV-14AVQ 10/15/20/40M Vertical - A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware..... **\$179.99**

Specifications:

- Bands: 10, 15, 20 and 40 Meters
- Power: 1500W PEP
- Height: 18 ft.
- Weight: 9 pounds
- Wind Survival: 80 MPH
- Mount: 1.5 in - 1.625 in. pipe

AV-18AVQ II 10/15/20/40/80M Vertical Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs. . **\$239.99**

DX-88 10/12/15/17/20/30/40/80M Vertical All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs..... **\$369.99**



Multi-Band PATRIOT Vertical Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W

AV-640 6 to 40 Meter Vertical - Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12 and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30 and 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks and roofs..... **\$399.99**

Specifications:

- Bands: 6, 10, 15, 17, 20, 30 and 40 Meters
- VSWR at resonance (typical): 1.5:1
- Power: 1500W, 2 minutes key down
- Vertical Radiation Angle: 17 degrees
- Horizontal Radiation Angle: 360 degrees
- Height: 25.5 ft.
- Weight: 10.5 pounds
- Wind surface area: 2.5 square feet
- Wind Survival: 80 mph

AV-620 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable. **\$299.99**

Specifications:

- Bands: 6, 10, 15, 17 and 20 Meters
- VSWR at resonance (typical): 1.5:1
- Power: 1500W, 2 minutes key down
- Vertical Radiation Angle: 17 degrees
- Height: 22.5 ft.
- Weight: 10.5 pounds
- Wind surface area: 2.4 sq. ft.
- Wind Survival: 80 MPH

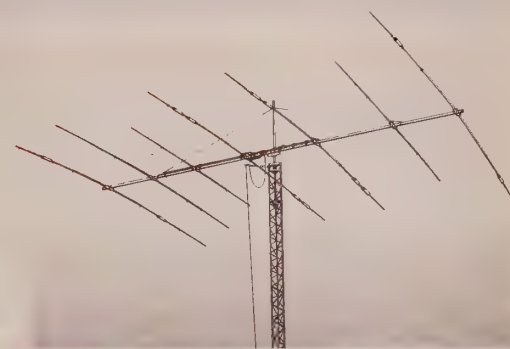
Single Band HF Beams

- Stronger, lighter, less surface area & years of High Performance
- Exclusive 50 ohm BetaMatch™ for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.

- LJ-103BA** 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **\$159.99**
- LJ-105CA** 10 Meters, 5 Elements, 24 ft. Boom, 10.8dBi Gain. ... **279.99**
- LJ-153BA** 15 or 12 Meters, 3 Elements, 12 ft. Boom, 7.9dBi Gain. **199.99**
- LJ-204BA** 20 or 17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain. **499.99**



Triband Beams



TH-7DX 7-Element Tri-Band Beam, 10/15/20 Meters - A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun. **\$799.99**

Specifications:

- Gain: 8.77dBi • F/B: 21dB • Power: 1500W PEP
- Boom Length: 24 ft. • Longest Element: 31 ft.
- Turning Radius: 20 ft. • Mast Diameter: 1.5-2.5 in.
- Surface Area: 9.4 sq. ft. • Wind Survival: 100 mph
- Wind Load @ 80 mph: 240 lbs • Weight: 75 lbs

TH-5MK2 5-Element Tri-band Beam, 10/15/20 Meters - Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-to-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun. **\$699.99**

Specifications:

- Gain: 8.3dBi • F/B Ratio: 20dB • Power: 1500W PEP
- Boom Length: 19 ft. • Longest Element: 31.5 ft.
- Turning Radius: 18.42 ft. • Mast Dia.: 1.5 - 2.5 in.
- Surface Area: 7.4 sq. ft. • Wind Survival: 100 mph
- Wind Load @ 80 mph: 190 lbs • Weight: 57 lbs

TH-3MK4 3-Element Tri-band Beam, 10/15/20 Meters - The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended. **\$469.99**

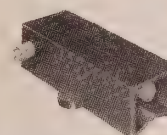
Specifications:

- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 1500W PEP
- Boom: 14 ft. • Longest Element: 27.42 ft.
- Turning Radius: 15.33 ft. • Mast Diameter: 1.9-2.5 in.
- Wind Area: 4.6 sq. ft. • Wind Survival: 95 mph
- Wind Load @ 80 mph: 118 lbs • Weight: 35 lbs

TH-3JRS 3 Element Tri-Band Beam, 10/15/20 Meters - The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. **\$359.99**

Specifications:

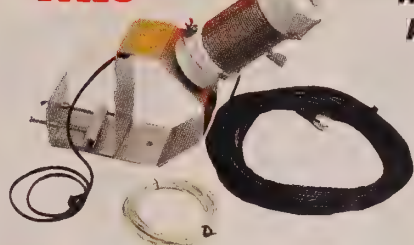
- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 600W PEP
- Boom Length: 14.75 ft. • Longest Element: 27.25 ft.
- Turning Radius: 14.3 ft. • Mast Dia: 1.25-2.0 in.
- Wind Area: 3.35 sq. ft. • Wind Survival: 80 mph
- Wind Load @ 80 mph: 83 lbs • Weight: 21 lbs



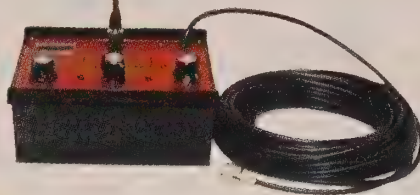
BN-86 Broadband 50Ω Ferrite Balun - Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector. **\$79.99**

MFJ

APARTMENT ANTENNAS WHIPS



Portable 40-10M Antenna



1622 Apartment Antenna - Operate 40M thru 10M, 6M and 2M, up to 300W PEP. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope. **\$99.99**

Telescoping Whips - Available in 12 & 10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base/mid-loaded antenna to greatly improve the efficiency. Use two with an MFJ 347 adapter to make a portable dipole.

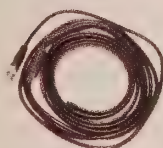
1956 - 12 ft. (22.5 inches collapsed) **\$34.99**

1954 - 10 ft. (29 inches collapsed) ... **\$29.99**



347 - HF Stick Mini-Dipole Mount 3/8 x 24. Use two of the MFJ Telescoping Whips to make a compact dipole. Mounts on mast up to 1.25" OD. ... **\$19.99**

ROLL-UP ANTENNAS



1730 2-Meter Pocket Roll-up Antenna - Just hang up this 1/2-wave J-antenna in the clear, plug the handy BNC connector into your handheld. Its omni-directional and has significant gain over a duck or 1/4 wave. Dim: 75" long. ... **\$29.99**

1736 6 Meter Roll-Up J-Pole Antenna - Similar to the 1730 above. 1/2-wave long, resonant around 52.5 MHz, VSWR < 2:1. PL-259 connector. ... **\$29.99**

VERTICAL ANTENNAS



1796 1/2-wave 6-Band No-radials 12 ft. tall Vertical, Covers 40, 20, 15, 10, 6 and 2M - Only 12 feet high with a tiny, 24 inch foot print. Mount it anywhere: ground level to tower top, apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions and camping. Uses efficient end loading with no lossy traps. And the entire length is always radiating. Automatic bandswitching, low angle radiation, omni-directional pattern, handles 1500W PEP. **\$219.99**

1798 10-Band No-radials 20 ft. tall Vertical, Covers 75/80, 40, 30, 20, 17, 15, 12, 10, 6 and 2M - The bigger brother of the MFJ 1796. Full size performance is achieved using separate full size radiators for 2-20M and high efficient end loading for 30, 40 and 75/80M. You don't need a ground or radials because an effective counterpoise that is 12 feet across gives you excellent ground isolation. ... **\$289.99**

1621 - A complete portable 40, 30, 20, 15, 12 and 10M antenna for use in practically any location: an unobstructed apartment, campsite, hotel, even at the beach. Consists of a 54 inch telescoping whip antenna mounted on a sturdy cabinet which houses an antenna tuner and field strength meter. Just place the unit in an unobstructed location, set the bandswitch, apply power, and tune for maximum field strength. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. The whip is easily removable and collapses to 22 inches for convenient transport. Dim: 6"w x 3"h x 6"d; 3 lbs. **\$99.99**

OTHER SOLUTIONS TO CONSIDER IF YOU ARE SHORT ON SPACE:

- Cushcraft Antennas: **MA-5B, MA-5VA & MA-8040V** - See page 79
- Make a compact dipole using two of the same Lakeview Hamsticks and a 901 Dipole Mount - See page 86
- Or use a random wire with an Antenna Tuner that can handle it - See pages 94 - 98 for tuners



16010 200W Random Wire Antenna Tuner Great for portable and temporary use. Matches almost any random length of wire to any transmitter from 160 thru 10 meters. For best results, the random wire should be as long, high and clear of surrounding objects as possible. Dim: 3"w x 2"h x 2"d; 0.8 lbs. **\$69.99**

See Page 84 for Antenna Wire

ISOTRON BILAL COMPANY

www.isotronantennas.com

80/40 COMBO



- Quick, easy and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels and Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.

ISOTRON 160C

Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Polypropylene and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

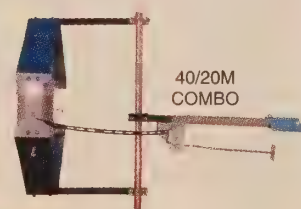
Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
HxWxD (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100 kHz	110 kHz	250 kHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	\$173.99	\$109.99	\$88.99	\$78.99	\$78.99	\$78.99	\$78.99



ISOTRON 20



20/15/10M COMBO



40/20M COMBO

80/40 COMBO - (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs. **\$188.99**

20/15/10 COMBO - Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 32"w x 4"h x 30"d; 10 lbs. **\$198.99**

40/20 COMBO - Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 16"w x 22"h x 32"d; 6 lbs. **\$167.99**

SPECIAL ORDER! - You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.

Radiowavz High Performance

Wire Antennas • Baluns • Line Isolators • Antenna wire/ Twin-lead • Coax assemblies



G5RV

G5RV

TUNED DIPOLE & OFC WINDOM

Originally developed in 1946 by Louis Varney, G5RV. The basic G5RV measures only 102 ft. across the top dipole section for 80 thru 10 meter operation. Its center-fed through a 28 ft. low-loss 300Ω twinlead stub which terminates into an SO-239 connector for attaching any convenient length of 50Ω coaxial cable. An easy match on all bands using the antenna tuner built-in to most of the current model radios, or a low-cost external tuner. Outstanding 20 meter performance.

G5RV Variations:

- G5RV** 80-10 meters, 102 ft., 28 ft. stub. .. **\$43.99**
- G5RV JR** 40-6 meters, 51 ft., 14 ft. **32.99**
- G5RV LITE** 80-10 meters, 67 ft., 28 ft. **54.99**
- G5RV MAX** 160-10 meters, 204 ft., 56 ft. **79.99**

TUNED DIPOLES

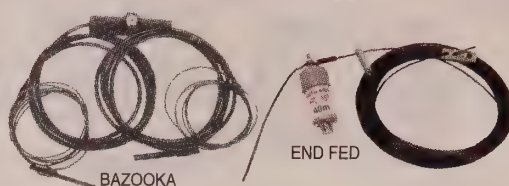
Simple, efficient 1/2 wavelength single-band performers. The radiating section is constructed with strong #14 AWG UV-resistant insulated stranded copper wire. Includes a Radiowavz 1:1 balun which improves the pattern and reduces feedline radiation. Terminates in an SO-239 to connect any convenient length of 50Ω coaxial cable. Install as a flat-top or inverted-V. Assembled, ready to install.

- 10MC/BALUN** 10 meters, 17 ft. long. **\$39.99**
- 12MC/BALUN** 12 meters, 19 ft. **39.99**
- 15MC/BALUN** 15 meters, 22 ft. **39.99**
- 17MC/BALUN** 17 meters, 26 ft. **39.99**
- 20MC/BALUN** 20 meters, 32 ft. **43.99**
- 30MC/BALUN** 30 meters, 46 ft. **47.99**
- 40MC/BALUN** 40 meters, 66 ft. **47.99**
- 80MC/BALUN** 80 meters, 130 ft. **59.99**
- 160MC/BALUN** 160 meters, 250 ft. ... **79.99**

DOUBLE BAZOOKA

A broadband 1/2-wavelength antenna that functions at 98% efficiency with a nominal VSWR of less than 2:1 over the entire band. The radiating section is constructed from 1/4" diameter coaxial cable that has the outer shield opened at the center to create the feed point. The copper center conductor is not cut and does not radiate, but acts as 1/4-wave shorted stub presenting a high impedance to the feed cancelling reactance as frequency changes resulting in increased usable bandwidth. The bazooka design does not radiate harmonics and produces very little feedline radiation. Its inherently balanced design also eliminates the need for a balun and feeds directly with any convenient length of 50Ω coaxial cable. The coax outer jacket is intact and sealed so there is no exposed wire. During rain or windy conditions, static charges which can produce annoying receiver noises and the potential for receiver front-end damage cannot build up. Handles 1500W/SSB & 200/CW. Install horizontally or as an inverted V. Assembled, ready to install.

- 40M-DBZ** 40 meters, 70 ft. length... **\$59.99**
- 75M-DBZ** 75 meters, 127 ft. **79.99**
- 160M-DBZ** 160 meters, 265 ft. **129.99**



BAZOOKA

END FED

END FED 1/2-WAVE

Single band, a full 1/2-wavelength long with a matching network at the end for 50Ω coaxial cable. The pattern is the same as a dipole and it can be installed horizontally, vertically or as a sloper. Does not require a ground plane or counterpoise. Works great for portable and stealth operations.

- EFH10** 10 meters, 17 ft. length..... **\$45.99**
- EFH20** 20 meters, 33 ft. **47.99**
- EFH40** 40 meters, 66 ft. **49.99**
- EFH80** 80 meters, 132 ft. **79.99**

DX OFF-CENTER-FED WINDOM

A favorite of DX'ers world-wide due to its terrific multi-band performance when used with an antenna tuner. Basically a dipole fed off-center with a Radiowavz 4:1 balun positioned at an optimum off-center point to provide the best multi-band match. An SO-239 connector provides for attaching convenient length 50Ω coaxial cable. The radiation from the vertical feeder portion combines with horizontal radiation produced by the top section to form a low-angle, omni-directional pattern. The antenna should be installed as high as possible and the feedline should drop vertically from the horizontal as far as is practical. Made with durable, #14 black, UV resistant insulated stranded wire. Rated 1500W/SSB, 200W/CW. Install horizontally, as a sloper, or inverted-V.

- DX160** 160, 80, 40 meters; 246 ft. len. ... **\$149.99**
- DX80** 80, 40, 20, 10 meters; 136 ft. **79.99**
- DX40** 40, 20, 10 meters; 67 ft. **64.99**

FOLDED TERMINATED DIPOLE

An excellent broadband antenna for Amateur, MARS, ARES, RACES & CAP operation. Low VSWR within its range with omni-directional characteristics and performance equivalent to a dipole but with better noise immunity. Rated at 500W/SSB, 200W/CW. Feeds directly with any length of 50Ω coaxial cable. Mounts horizontally between two supports, or as an inverted-V using a single central support mast. Assembled, ready to install.

- FTD-20** 7-30 MHz, 20 ft. length... © **\$224.99**
- FTD-45** 5-30 MHz, 45 ft. © **224.99**
- FTD-65** 3-30 MHz, 65 ft. © **224.99**
- FTD-90** 1.8-30 MHz, 90 ft. © **224.99**
- FTD-MK** Three pole mounting kit. **45.99**

END FED TERMINATED WIRE

EFT-110 - An excellent series end-fed broadband antenna often used by the Military for 1.7 to 30 MHz continuous coverage. It has excellent EMI rejection and is extra quiet to capture weak signals. Feeds directly with any length of 50Ω coaxial cable. Length is 110 ft. and installs horizontally between two supports as a terminated sloper, or as an inverted-V using a single central support mast. Rated at 500W/SSB, 200W/CW. **\$249.99**

ANTENNA WIRE & TWIN LEAD

- WCCS147-100** 100 ft. 14 gauge, 7-strand copper-coated steel antenna wire, 780 lb break. ... **\$14.99**
- WCCS147-250** Same, 250 ft. **35.99**
- TL-308100** 100 ft. 18 ga. 300Ω Twinlead. .. **24.99**

© After Radiowavz instant coupon until 11/24/10



B-11A,
14VA,
19TX

HIGH POWER

DPH

BALUNS & ISOLATORS

B-11A 1:1 Balun - Voltage-type for 50Ω unbalanced to 50Ω balanced applications, 1.8-54 MHz. Open air-core, trifilar wound, will not saturate. 1500W/SSB, 200W/CW. SO-239 connector and eyehook support. Dim: 6.5" x 1.75" dia. **\$24.99**

B-14VA 4:1 Balun - Ruthroff voltage-type for 200Ω balanced to 50Ω unbalanced or 300Ω balanced to 75Ω unbalanced, 1.8 to 30 MHz. Single-layer wound open air core will not saturate. 1500W/SSB, 200W/CW. SO-239 connector and eyehook support. Dim 6.5" x 1.75" diameter. . **\$29.99**

B-19TX 9:1 Isolation Balun - Current-type for matching a 450Ω load to a 50Ω load, or 675Ω load to a 75Ω load, 1.8-30 MHz. Also acts as RF isolator reduce or eliminate stray RF from coax while providing galvanic isolation. Typical uses are for Rhombic, Delta loop, V's, FTD dipole. 1500W/SSB. 250W CW. Dim: 6.5" x 1.75" diameter. **\$39.99**

DPH Dipole Head - For support only, no balun. SO-239 connector, 6 in. leads and hole for support rope. Rated 1,500W PEP. Dim: 2.5"w x 4.5"l. **\$9.99**

B-11ISO 1:1 In-line RF Isolation Choke (UNUN) Also known as a common-mode choke. Installs in-line between antenna and rig. Reduces or eliminates RF from the coax shield resulting in improved station performance and less potential for RF induced problems in the shack and surrounding area. Effective 1.8 to 50 MHz, 1500W/SSB, 200W/CW. SO-239 connectors. Dim: 6.75" x 1.75" dia. **\$34.99**

High Power Models - For applications where a higher power rating and a more rugged balun or choke is required. Uses large cores wound with heavy wire. Installed in a rugged case and potted in an epoxy compound. Rated 3.5 KW. Dim: 2.3"h x 4.3" square.

- HP-B11C** 1:1 HF choke balun..... **\$75.99**
- HP-B11D** 1:1 HF dipole balun. **75.99**
- HP-B14C** 4:1 HF current balun. **97.99**
- HP-B14VT** 4:1 Tuner extender balun. **79.99**
- HP-B19LW** 9:1 Long wire balun. **97.99**
- HP-ISOX** RF isolation transformer..... **79.99**



Ready-Made COAXIAL ASSEMBLIES

High-quality RG-8X-type 50Ω coaxial cable with Silver/Teflon® PL-259 connectors installed and reinforced with a weatherproof strain-relief sleeve.

- Solid copper center conductor (0.150")
- 100% foil shield + 90% braid • 84% VF
- Non-contaminating, UV stabilized jacket (0.240")
- Handles 500W/SSB & CW
- Performance sweep tested to 3GHz.
- Loss per 100 ft: 1.7dB @ 50 MHz, 2.45dB @ 100 MHz, 4.98 dB @ 400MHz.

- J8X-U1** 1.5 ft. **\$9.99** **J8X-U25** 25 ft. **\$29.99**
- J8X-U3** 3 ft. **11.99** **J8X-U50** 50 ft. **37.99**
- J8X-U6** 6 ft. **14.99** **J8X-U75** 75 ft. **49.99**
- J8X-U12** 12 ft. **22.99** **J8X-U1X** 100 ft. **63.99**

UNADILLA

for Over 50 Years ...
legendary antennas built to last!

W2AU/W2VS™ 5-BAND ANTENNA KIT

This antenna is based on the 80/40M trap dipole design found in the ARRL Handbook. A W2AU balun is used with a pair of 40M traps to create a multiband dipole that is resonant on 40/80M while having a low VSWR on 10, 15 & 20M. Requires 120 ft. of wire, not included.....**W2AUW2VSNOWI \$78.99**

W2VS ANTENNA TRAPS

Convert your single band dipole into a tuned multibander. Traps for different bands can be combined to create a single antenna for your favorite bands, from 160 to 10M. Stainless steel and aluminum hardware, over 600 lbs pull strength, epoxied capacitors - waterproof. Rated at 2KW/SSB.

Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

KW-10 10M pair **\$45.99** **KW-30** 30M pair **\$47.99**
KW-12 12M pair **\$45.99** **KW-40** 40M pair **\$47.99**
KW-15 15M pair **\$45.99** **KW-60** 60M pair **\$49.99**
KW-17 17M pair **\$46.99** **KW-80CW** 80 CW pr **\$52.99**
KW-20 20M pair **\$46.99** **KW-80F** 80 PH pr **\$52.99**

W2AU FERRITE BALUNS

Voltage-type used with a balanced antenna (dipole or driven element) to connect to an unbalanced coaxial transmission line (RG-8, 8X, etc). Prevents pattern distortion caused by unequal currents and assures that the antenna and not the feed line is doing the radiating. Effective from 1.8-40 MHz, rated 2KW/SSB. DC grounded for lightning protection. SO-239 connector and support hook.

W2AU 1:1 - 1:1 impedance ratio..... **\$26.99**
W2AU 4:1 - 4:1 impedance ratio..... **26.99**
W2AU BEAM - 1:1, boom/mast mount... **27.99**

W2DU 1:1 CHOKE BALUNS

Current-type, transformerless consisting of a number of ferrite beads placed on a short length of RG-303/U. Isolates (chokes) the transmission line at the feed-point which prevents RF currents from flowing on the outside of the transmission line without affecting the internal signal. Reduces RF feedback, BCI/TVI. Extended frequency range 160-10 meters. Handles legal power and VSWR up to 5:1 allowing use with an antenna tuner.

W2DU-HF - 1:1, 1.8-30 MHz range..... **\$28.99**
W2DU-VHF - 1:1, 30-250 MHz range..... **28.99**
W2DU BEAM - 1:1, 40-10M, for beams... **29.99**

W2AU ANTENNA INSULATORS

HA AN-Insulator™ - Center dipole insulator with support hook. Built-in lightning protection. UHF connector. Dim: 3.5" long x 1.75" dia..... **\$11.99**

HE END-Insulator™ - Shatter-proof antenna end insulator features long voltage path for low leakage and a wire track. Dim: 5.5" x 1" dia..... pair **\$6.99**



G5RV Antennas

G5RV/STD - Covers 80-10 meters with an antenna tuner. 102 ft. of #14 stranded copper wire and 31.5 ft. of 450Ω #18 ladderline. Use as a flat top or an inverted vee, use any length of 52Ω coax... **\$62.99**

G5RV/JUNIOR - Same but covers 40-10 meters; 51 ft. long and 16 ft. #18 ladder line..... **\$47.99**

G5RV/MINI - Same but covers 20-10 meters; 25.5 ft. long and 8 ft. #18 ladder line..... **\$40.99**



Off Center-Fed Six Band Antenna

OCF - Covers 75/80, 40, 20, 17, 12 & 10M, all without the use of an antenna tuner. The rugged broadband design uses flexible, 65 strand 12 ga. PVC coated wire fed off-center with an integral 6:1 balun. The two sections are 45 and 90 ft. long requiring an overall install space of 135 ft. Alternately, it can be erected in only 68 ft., but coverage then is limited to 40, 20 & 10 meters. The special balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239. A stainless eyebolt provides for attaching a support rope. Rated 300W CW/SSB. Assembled, ready to install. Wt. 7 lbs. **\$189.99**

MFJ WIRE ANTENNAS

1778 G5RV All-Band Antenna - A center fed, 102 ft. long wire antenna with a special 31.5 ft. twin-lead feeder terminated with a SO-239 connector. Matches a 52Ω coax run from the rig. 80-10 meter coverage with a nominal VSWR. Use an antenna tuner for broadest coverage and lowest VSWR. Using a tuner and a good ground will also allow 160 meter coverage as a top-loaded wire. Install as a flat top, inverted-V or sloper. Handles 1500W SSB. Assembled, ready to install..... **\$44.99**

1777 All Band Doublet Antenna - A 102 ft. long flat top (or inverted-V) supplied with 100 ft. of 450Ω ladder line. Covers 160 to 6 meters when used with an antenna tuner. No SO-239... **\$59.99**



Ladder Line

Provides extremely low loss, even at high SWR. Great for an all-band dipole or wire antennas using a balun, an in-shack or remote antenna tuner.

1313 1 inch wide, 450Ω, #14 (19/27) stranded conductors, 91% velocity factor..... per ft. **74¢**

1313100 100 ft. roll..... **\$69.99**

13131000 1000 ft. roll..... **\$499.99**

1318 1 inch wide, 450Ω, #18 (solid) bare copper covered steel conductors..... per ft. **29¢**

1318100 100 ft. roll..... **\$24.99**

13181000 1000 ft. roll..... **\$199.99**

Hint: For best results use a length of ladder line that is not a multiple of a 1/2-wavelength on any band. Lengths like 43 and 86 ft. are good. Avoid 32, 65, 96, 130, 260 ft. and multiples of those. To avoid de-tuning, use stand-offs to space the line a couple of inches away from metal. Twist it about a turn every two feet to reduce noise pick-up and wind effects.

synthetic textiles, inc.

Black Dacron®
Polyester Rope



Constructed of strong double braided Dacron® polyester fiber. It's colored black for UV protection and has excellent resistance to weather, mildew and abrasion. After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers and for overhead/side boom support on long beams; eliminates conductors in the RF field

100' - 100 ft., 260+ lbs. strength, 3/32"..... **\$9.99**

100' 3/16 - 100 ft., 770+ lbs., 3/16"..... **18.99**

100' 5/16 - 100 ft., 1790+ lbs., 5/16"..... **26.99**

350' - 350 ft., 770+ lbs., 3/16"..... **49.99**

ANTENNA INSULATORS

MFJ 16C01 - Glazed ceramic. Molded ridges prevent voltage breakdown. Use as center or end insulator for wire antennas, etc. Dim: 2.3" x 1" dia..... each **99¢**

DELTA-CIN - Made from an extremely rugged UV and RF resistant DELTALLOY material. Large molded ridges prevent voltage breakdown. Dim: 2.7" x 1.7" dia.each **\$1.99**



ALPHA DELTA



WA1FFL Ladder-Loc®

Ladder Line Center Insulator/Support

LADDER-LOC - Attach 450Ω ladder line to wire antennas. Minimizes feedline flexing at the antenna feedpoint. A top attachment point provided for a support rope. UV resistant..... **\$12.99**

MFJ REMOTE BALUN



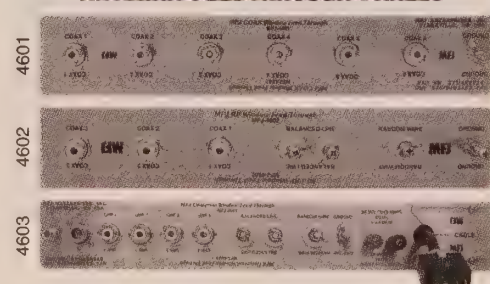
FRONT

BACK

912 W9INN Remote Balun - Use balanced feed line with your antenna while using 50/75Ω coaxial cable from your rig, etc. At the remote location, feeders attach to the heavy duty ceramic feed-thru's without detuning. Uses a two-core 4:1 balun with Teflon® wire, rated 1500W/SSB.

Dim: 3.25"w x 2.25"h x 7"d..... **\$69.99**

ANTENNA FEEDTHROUGH PANELS



Place in a window sill up to 48 in. wide and close the window down on it. Made of 3/4 in. pressure-treated wood sandwiched between two stainless steel plates.

4601 (6) UHF coax feeds and a ground... **\$59.99**

4602 (3) UHF coax feeds, balanced line, random wire and a ground..... **\$69.99**

4603 (1) E, (1) N, (4) UHF coax feeds, balanced line, random wire, a ground, DC current and almost any cable (Amp cable shown)..... **\$89.99**

Tarheel Antennas



LIL TARHEEL II Motorized Mobile Antenna

The Little Tarheel II antenna covers 3.5–54 MHz continuous with the supplied 32 in. stainless whip and is only 54 in. tall at 3.5 MHz. Tunes via a remote up/down switch. Power Rating: 200W PEP; VSWR: 1.5:1 or less; Lower Mast: 1.5 in. diameter by 16 in. long; Weight: 1.9 lbs. Includes: Remote Control Box with 20 ft. of cable, Ferrite Decoupling Core and 3/8-24 Stud. Mount is not included but a Diamond K-400-3/8C works well. **\$379.99**

100AHP PACK Motorized Mobile Antenna

The 100A-HP antenna covers 3.5–29 MHz continuous with the supplied 6 ft. stainless whip and is 10.3 ft. tall at 3.5 MHz. Tunes via remote up/down switch. Power Rating: 1,500W PEP; VSWR typically 1.5:1 or less; Lower Mast length: 3 ft.; Weight: 8 lbs. Package Includes: 100A-HP Antenna, MT-1 Antenna Bracket, Whip Quick Twist Disconnect, 21 ft. RG-8X Coax Assembly, Coax Seal, 20 ft. Control Cable, Manual Switch, Ferrite Decoupling Core, Matching Coil, Fuseholder/Fuse, 3/8-24 Stud and Silicone Dielectric Compound. Complete Package, all you need is an HF radio! **\$499.99**

MFJ Mirror/Rack/Pipe Antenna Mounts Large/Small Magnet Mounts



342T Mirror/Rack/Pipe Mount – Holds 3/8-24 in. style whips on your automobile's mirror, luggage rack or other pipe. Hard aluminum clamps can mount to a 1/4 or 1/2 in. pipe. Has a SO-239 coax connector (coax not included). **\$9.99**

342S Mirror/Rack/Pipe Mount – Similar to MFJ-342T, but has SO-239 antenna connector and includes 17 ft. of coax with a PL-259. **\$14.99**

344 Pipe/Mirror Horizontal Mount – Accepts 3/8-24 in. thread and PL-259 coax conn. **\$9.99**

347 Mini Dipole Mount – Use two 3/8-24 mobile whips (not included) to build a compact dipole for a favorite band. Mounts on masts up to 1.25" diameter. Solid aluminum with SO-239 connector. **\$19.99**

7707 NMO to 3/8-24 Adapter – Mount a 3/8-24 HF whip to a NMO mount. **\$6.99**

333BM Magnet Mount – 3-in. dia. NMO-style. 17 ft of coax with PL-259 con. **\$11.99**

335BS – SO-239-style mount. **\$15.99**

336S Goliath Tri-Magnet Mount – Has (3) Super Strong 5-inch magnets bolted to a 1/4 in. thick triangular mount. SO-239 style antenna mount. Comes with 17 ft. of coaxial cable and PL-259 connector. **\$34.99**

336T – 3/8" x 24 style mount. **\$34.99**

Lakeview

WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas

Hamstick 75 thru 10 meter models consist of a 47 in. long x 1/2 in. diameter fiberglass base section with a loading coil wound over its length and covered with black shrink-wrapped PVC. It's fitted on one end with a 3/8 x 24 brass base fitting to fit most mobile mounts. A black 48 in. stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 in. base section and whip. Includes Frequency vs Length tuning graphs.

If the antenna shows a SWR of 1.5:1 or better, no matching should be necessary. However, on 40 and 75 meters, you can capacitively match the base for a better VSWR using values from the instruction sheet.

If you frequently change bands you can use the IM-1 Inducti-Match which is an impedance matching coil that simply installs at the base of the antenna and adjusts by using the supplied clip lead to tap up the coil for the best match.

Hamstick Models (band)

9106 (6M)	9110 (10M)	9112 (12M)
9115 (15M)	9117 (17M)	9120 (20M)
9130 (30M)	9140 (40M)	9160 (60M)
9175 (75M)		

All Hamstick models..... each **\$39.99**



901 Dipole Mount – Attach two Hamsticks to make an effective shortened dipole. **\$24.99**

IM-1 Inducti-Match – See desc. above. **29.99**

TM-1 License Plate Mount – 3/8" x 24. **54.99**

YAESU ATAS-25

HF/VHF/UHF QRP Field Antenna for portable use with the FT-100D, FT-817, FT-857 or FT-897, etc.

Covers 7, 14, 21, 28, 50, 144, 430 MHz. Switch bands by changing and adjusting the supplied elements. Handles 100W SSB/CW @ 50% duty cycle and 50W 144 and 430 MHz. Mounts on a camera tripod, etc. (not supplied). SO-239 coaxial connector Dim: 7.2 ft. tall, 2 lbs. **\$229.99**

ATAS-120 HF/6/2/430 MHz Motorized Tuning Antenna

Remotely tunes for the lowest SWR using control voltages routed thru the coaxial cable from an ATAS compatible Yaesu transceiver. It is recommended to use a duplexer, otherwise the coaxial cable must be manually moved to correct jack when switching between HF/6M and 2M/440. Mounts directly on a standard Diamond or Comet mobile mount. Handles 120W at less than a 2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs. **\$299.99**

ATBK-100 VHF/UHF Antenna Base Kit – Not required unless operating the VHF or UHF bands with the ATAS-120 off the vehicle. It restores the low-angle response for enhanced performance. Use with suggested base mount. **\$89.99**



MFJ Manually Tuned Screwdriver Antenna

Compact and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for stationary operation with better efficiency. Tunes quickly and easily by simply sliding the aluminum cover up or down over the loading coil. Copper-beryllium finger stock completely surrounds the coil maintaining a solid connection as tuning is accomplished. Unused turns on the coil are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8 x 24 stud in the base makes it easy to attach to a number of existing mounts. Handles 200W(SSB).

1661 – 40–6M, 12 in. (1 lb). **\$139.99**

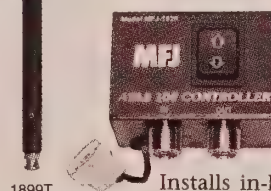
1664 – 80–6M, 15 in. (1.25 lbs). **\$169.99**

1624 HF Mini Bugcatcher – Operate 40 thru 6 meters simply by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise wire for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Handles up to 300W (SSB). Versatile mounting using a trunk lip, mirror, luggage or tri-mag mount (shown but not included). **\$89.99**



1899T Walkabout™ Multi-band Telescoping

Antenna – Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed; the base section is 11.5 in. **\$79.99**



1925 Screwdriver

Antenna Controller
Use the Yaesu ATAS screwdriver antenna with Alinco, Kenwood and other transceivers.

Installs in-line between the antenna and rig and provides the necessary control voltage to operate the antenna. **\$79.99**

1925I2 Screwdriver Antenna Controller
Designed for the Icom IC-706 with a special control cable and 4-pin connector that mates with the 706 controller port. The Up/Down switch puts the 706 in low power and tunes antenna. When the lowest SWR is found, simply release the switch and you're ready to operate. Simple to install. No modification to the radio or antenna is necessary. **\$79.99**

1910 Telescoping Fiberglass Mast (left) – It extends to 33 ft. tall, collapses to 3.8 ft. and weighs only 3.3 pounds. Pull out each section and twist to lock. It's great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DXpeditions. Use it to make other antenna like loops and quads. The mast is made of super strong fiberglass and flexes to resist breaking, the bottom section is 1-3/4 in. diameter. Black coating resists UV. **\$79.99**

1910

The Outbacker - Provides efficient, multiband mobile performance in a rugged, lightweight, single whip-only design. A sleek, low profile design without bulky traps or coils allows use with standard 3/8-24 bases and trunk-lip mounts except the Joey has a PL-259 connector.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators or retuning.

MOBILE:

JOEY 80-2M 20W for QRP 50".... **\$299.99**

MICRO-MOUNT Tripod for Joey..... **49.99**

OB8-HP 75-10M 500W PEP 6'..... **329.99**

OB8-TRI 75-10M 300W PEP Three 2' Sections with Carrying Bag 6' total.. **339.99**

PERTH 75-10M 150W PEP 7.5'..... **329.99**

STEALTH-PLUS 80-2M 100W PEP 3'. **319.99**

OB-SB the "Ultimate Spring Mount" for your OUTbacker mobile antenna **129.99**

BASE:

OUT-REACH 160-10M 300W PEP 9'. **419.99**

OUT-REACH 500 80-6M 600W PEP 9'. **449.99**

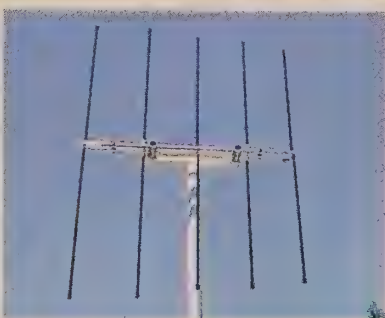
PERTH-PLUS 75-2M 150W PEP 6'. **329.99**



OUTPOST The Outpost Base Tripod Mount - An efficient way to use mobile antennas in Base or Portable applications. The 36 in. long by 3 in. wide fold out feet form a large capacitor coupling with the earth which results in greatly improved radiation efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount is a 3/8 x 24 thread stud... **\$275.99**

ELK ANTENNAS

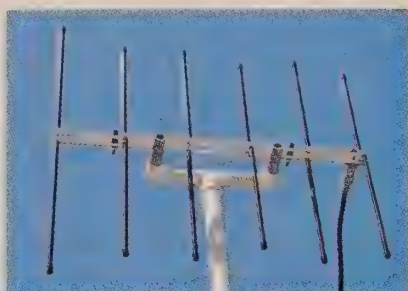
Log Periodics - Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



2M/440-L5 2M/440 MHz Log Periodic - Dual band operation without a duplexer and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color-coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, five black anodized aluminum elements and stainless hardware. **144-148 MHz:** 6.8dbd gain; **430-450 MHz:** 7dbd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lbs..... **\$124.99**



440-L8 440 MHz Log Periodic - The latest model with increased gain and wide bandwidth. Great antenna for fox hunting, use the 3rd harmonic of 2M, no problem with RF bypassing the HT connector. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. **420-450 MHz;** 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz. **\$107.99**

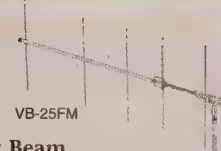


220-L6 220 MHz Log periodic - All of the great Elk Antenna log-periodic features in a popular 220 MHz version. **222-225 MHz;** 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs. **\$107.99**

ELK BAG Canvas Carrying Bag - For convenient transporting of all ELK antennas... **\$24.99**

Silver-teflon® connectors on all models

hy-gain VHF BEAMS



VB-25FM 2M 5 Element Beam

5 Element beam spaced on a 75" boom. New boom-mast bracket fits 1.625 - 2.0625" mast. 11.3 dBi; Maximum power: 250W continuous, 500W PEP; Wind Survival: 80 MPH; 2.9 lbs..... **\$59.99**

VB-64DX 6M 4 Element Beam - 4 Element beam spaced on a 12' boom. The center located boom-mast bracket fits 1.625 - 2.0625" mast. 10.35 dBi; Maximum power: 500W continuous, 1kW PEP; Wind Survival: 100 MPH; 10 lbs **\$144.99**

Arrow Antenna

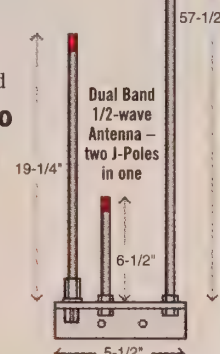
146/440 MHz Dual Band J-Pole Antenna

This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

OSJ-146/440... \$39.00

Mounts just about anywhere: In the attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.



LEO Satellite Antenna



146/437-10 - KK5YY working thru a satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip handle on the rear. The (3) VHF and (7) UHF elements are strong and lightweight aluminum arrow shafts, plastic tipped for safety. Gamma matched system with BNC connectors for each band. **\$73.00**

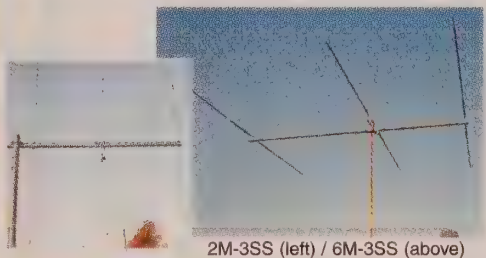
146/437-10BP - Split boom model..... **\$79.00**

10W DUPLEXER - Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector..... **\$59.00**

DUPLEXER SMA - w/ SMA connector. **\$64.00**



High Performance Yagis – The standard, combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. Big gain and clean patterns for long-haul, tropo and EME. The rugged, waterproof driven element module uses an efficient T-match with 4:1 balun and SNS connectors that are O-ring sealed to a CNC machined block with internal connections encapsulated in silicone gel and a type "N" connector with a beryllium copper, gold-plated center pin. Models for 6M, 2M, 222, 432/440 MHz, 1.2 GHz.

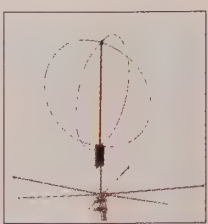


Starter Series Yagis – Low cost, medium performance antennas for your first venture into VHF and UHF bands. Tailored for compact size and portability. Great for field day, vacations, mountain topping, fox hunts, DXpeditions. Each antenna breaks down to no more than 40 in. long, making it a natural for trips. Perfect for deed restricted areas where windload and overall appearance must be kept to a minimum. Uses 3/16" dia. rod aluminum insulated elements, a driven element Gamma Match feed with no balun and a single heavy duty mounting cradle with stainless steel hardware. Models for 6M, 2M, 222 and 432 MHz.

HO Loops – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional HO-Loop to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna, with contacts up to 200 miles not uncommon. Rugged tuning and 50Ω matching system; stacking kit/harness available. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW when stacked. Models for 6M, 2M, 222 (Special Order) and 440 MHz.

Eggbeaters – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz.

See Pages 14 & 15 in the Price Guide and for more information go to: www.m2inc.com



Laird TECHNOLOGIES

Formerly Antenex



The Phantom® – The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

TRABT-1420 VHF – Tunable 142-164 MHz, unity gain. Black, 3.3" tall x 3.5" dia. radome. ... **\$59.99**

TRAB-4303 UHF – Covers 430-450 MHz, 3 dB gain. Black 3.3" h x 1.5" dia. radome. **\$29.99**



BB-1443 VHF Wideband Antenna Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black)... **\$39.99**

CWB-1443 VHF 5/8-Wave Broadband Self Tuning 144-156 MHz, 3dB gain, 47" tapered whip. (Black). **\$49.99**

CWB-4405C UHF Wideband Collinear – Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip.* Requires NMO mount. (Black). **\$49.99**

BB-1442N Broadband, 5/8-Wave No Ground Plane – Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip. ... **\$39.99**

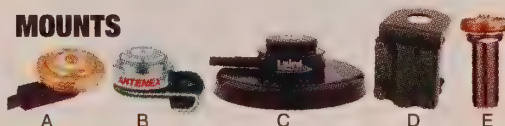
BB-4303 UHF 5/8-Wave – Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black)... **\$34.99**

AB-FT Broadband 1/4-Wave – Tunable 118-896 MHz, unity gain, requires NMO mount. ... **\$16.99**

AB-SCANC Collinear Scanner Antenna – For 150/450/800 MHz receive only. Requires NMO mount. (Black). **\$29.99**

CB-144/440C Collinear Dualband VHF/UHF Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black). . **\$49.99**

MOUNTS



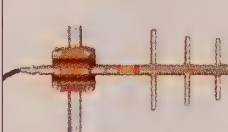
MB-8PST NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector. **\$16.99**

TM-8PST NMO Mini-Trunk Lid Mount (B) Chrome, includes 17' of coax with PL-259. **\$26.99**

GB-8PSTI NMO Magnetic Mount (C) – Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon® PL-259 connector. . **\$34.99**

LBMB-9034 Mirror Mount L-Bracket (D) – Strong aluminum, black. For 3/4" hole mounts... **\$10.99**

VTPM Plate Mount (E) – 1" thick, NMO... **\$19.99**



Gold-Anodized Yagis

Internally matched, wide band. End-of-boom N-type connector, internal transmission line feeds the driven element.

Y-1363 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dBd F/B. Rated for 500W. Mounts on mast up to 2.5" diameter. **\$99.99**

Y-1365 5-Element VHF – Same but 9.2 dBd gain, 20 dB F/B & rated for 300W. **\$129.99**

Y-4303 3-Element UHF – Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter. **\$99.99**

Y-4305 5-Element UHF – Same but 9.2 dBd gain, 20 dB F/B. **\$129.99**

For models see Antenex on Page 5 in Price Guide



A-99 10M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers it.

Rugged three-piece white fiberglass construction with triple-plated brass fittings. It's easy to install. The optional GPK-1 ground plane radial kit increases performance!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in. **\$89.99**



GPK-1 Groundplane Kit Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials. **\$64.99**



YAGI

SKYHAWK 3X10 Triband Yagi – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free. **Drop Ship - Truck Collect for Freight. \$1249.99**

VERTICALS

Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

HF-6VX 6-Band Vertical. \$389.99

HF-9VX 9-Band Vertical. \$449.99

HF-2V 80/40M Vertical – Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands. **\$299.99**

MFJ 43 ft. tall Self-supporting 160-6M Vertical Antenna



2990 – Full band coverage when used with a built-in or an external antenna tuner. Strong and built-to-last using 6063 corrosion resistant aluminum and stainless hardware. The bottom section is made of 2 in. diameter thick-walled (0.120) tubing. The top section is a 9 ft. (0.125 dia.) solid stainless-steel. whip. It all weighs just 20 lbs and projects only a 2 sq. ft. wind load. It assembles quickly which is great for permanent or temporary operations like field day, DXpeditions, etc. For stealth operation, put it up at night and take it down in the morning. Put a flag on top, hide it behind trees, fences, buildings, bushes, or tilt-over. Feeds at the base into a full legal limit 1:1 balun. Includes a ground mount base kit. **\$359.99**

Miracle Antenna



MIRACLE WHIP

DUCKER IL

Miracle Whip

All Band, Rig Mounted Tunable Whip

For QRP (5W) or SWL rigs – a completely self-contained, all-band 57 inch telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The variable auto transformer design operates effectively without a counterpoise as the continuously variable nature permits finding a good match using whatever ground paths are available **MIA Miracle Whip \$139.99**

Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of RX gain on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio **MIA Ducker IL \$139.99**

MFJ

RUFFRIDER™ Mobile Antennas

(The mounts shown are not included)



1432 1422 1412 1402

Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate power at the horizon.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

1402 Junior – 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over. . **\$29.99**

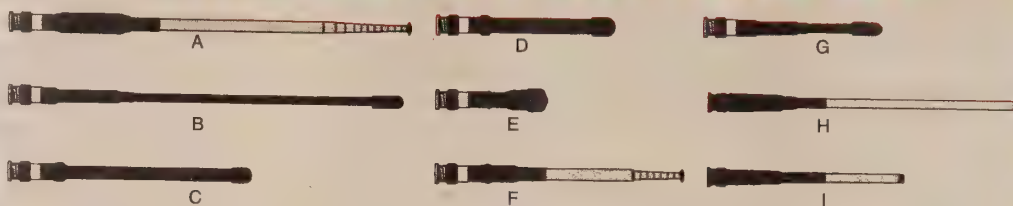
1412 High Power – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz. **\$29.99**

1422 High Gain – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz. **\$34.99**

1432 Hyper Gain – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W.... **\$49.99**

1436 Triple Threat – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W. **\$59.99**

THE SMILEY ANTENNA CO.



HAND TUNED ANTENNAS for HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a PVC heat-shrink coating applied for strength and endurance.

All are rated for 50 Watts and have BNC connectors unless stated different.

TAQ2* – 1/4-wave whip antenna, 2M. **C/O \$9.99**

14610* Super Stick II (A) – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended at 54". Usable fully collapsed at 10", or one section 1/4 wave. **\$19.99**

14620* 5/8 Slim Duck (B) – 2M, 5/8-wave, 7db gain, flexible base loaded ant. 12" long. **\$19.99**

14626 – Same as above with SMA con. ... **\$19.99**

14650* Regular Duck (C) – For 2M. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs. **\$15.99**

14656 – Same as above with SMA con. ... **\$15.99**

14680* Flex-Coil (H) – 2M, 1/2-wave, 7-9db gain, flexible base, 35" fully extended. **\$25.99**

TAQ220* – 1/4-wave whip, 220 MHz. **C/O \$4.99**

22019* Super Stick III/Combo (A) – Similar to 14610; 220 MHz 5/8-wave; 6-9 db gain extended at 36"; usable collapsed at 8.75", or a one-section 1/4-wave; includes a 220 MHz stubby duck. **C/O \$9.99**

22030* Slim Duck (G) – 220 MHz, 6" ant. **C/O \$2.99**

22050* Reg. Duck (D) – 220 MHz, tuned. **\$15.99**

22060* Stubby Duck (E) – 220 MHz. **C/O \$4.99**

22200* Thin Stick (I) – 1/4-wave telescoping dual band antenna for 144 & 220 MHz bands. **\$16.99**

TAQ440* – 1/4-wave whip, 440 MHz. **C/O \$4.99**

44010* Super Stick IV (F) – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; 18" extended, 5 1/4" collapsed. **\$19.99**

44019* Super Stick IV Combo – Same as above, plus has 440 MHz stubby duck. **C/O \$12.99**

44020* 5/8 Slim Duck (G) – 440 MHz, 7db gain, flexible base loaded 5" antenna. **\$19.99**

27000* (I) – Telescoping 2m/220/440 MHz antenna. 1/4-wave (2m); 5/8-wave (220 MHz); 5/8 & 1/4-wave (440 MHz). **\$19.99**

27006 – Same as above with SMA con. ... **\$19.99**

*BNC Connector

HT RANGE EXTENDERS

1714 Long Ranger™ 2M Halfwave BNC – This end-fed 1/2-wave is hard to beat. At 40 inches extended it outperforms a 5/8 wave because it does not need a ground plane. When collapsed to 10.5 inches, it performs equal to a regular rubber duck and places less stress on the antenna connector. **\$16.99**

1712 Dual Bander™ 2M/440 MHz BNC – 1/4W for 2m and 5/8W with gain for 440 MHz. Dim: 4 in. collapsed, 15.5 in. extended. . **\$14.99**

1712S – Same as 1712 w/SMA connector. **\$14.99**

1710 Pocket Linear™ 3/8 Wave, 2M BNC – Clips in your pocket like a pen. When using your rubber duck in fringe or noisy areas, put on the Pocket Linear, extend out to 23.5 in. and carry on your QSO. Only 5.25 in. collapsed. **\$9.99**

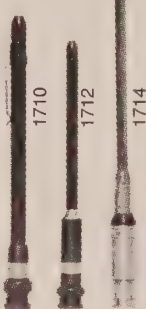


SmallWonder™ for 2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz.

Order **1719** with BNC connector or **1719S** with SMA. each **\$14.99**

MFJ
BNC Connectors



1710 1712 1714

Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable.

Order **310** with BNC connector or **310S** with SMA. each **\$19.99**



Dual Band UltraLite™ Magnet Mount Antenna

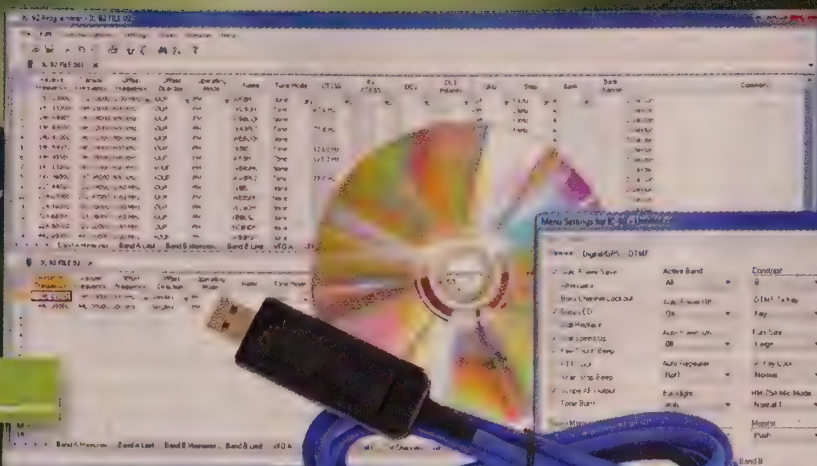
1722S – This UltraLite™ 2M/440 magnet mount antenna has 12ft of RG-174U coax with SMA connector on the cable. Weights less than 2 oz but holds on with an 1/8" rare earth magnet. The whip is thin, flexible and 20 inches long. 5/8 wave on 2M and 1/4 wave on 440 MHz. Quick and easy performance boost for your handheld while operating in the car. **\$14.99**

1722 – Same but BNC connector. **\$14.99**

More HT Antennas on Comet/Maldol pages 64 & 65 and Diamond page 71



PSTVAS-SMA HT Antenna for Tactical/Safety Vest – A body-worn antenna for use with handheld radios. The antenna runs from a handheld radio and conceals in clothing, jacket or vest. Covers 6M, 2M, 220 & 440 MHz and works better than a standard rubber duck or flat blade antenna. SMA connector. Tactical/Safety Vest not included. Dim: 40 inches long, 4.1 oz. **\$49.99**



Now Radio Programming Simplified

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RADIO PROGRAMMING MADE EASY

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FOR MANY ICOM RADIOS 800-921-4834**

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QUICK SETUP - EASY INTERFACE- USER FRIENDLY

Bring your radio out of the "black box" and onto your computer screen! Enter Memory Channel details and other settings. Yep. It's pretty great. See how easy it can be to set up your radio. Really. It's easy... Sooo easy.

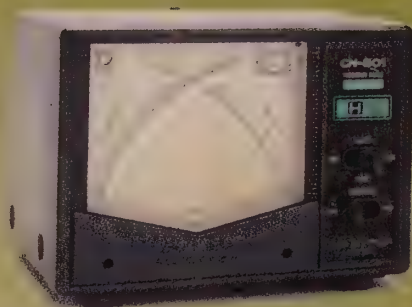
Available from AES:
IC-T70, IC-80, IC-V80
IC-T90, IC-91AD
IC-92AD*, IC-208H,
ID-S80, IC-2200H,
IC-2820H, IC-7000,
IC-V8000

SOFTWARE, THE PROGRAMS DO NOT WORK BETWEEN RADIOS

Accurate Measurements NO EXCUSES.

Professionally Engineered Cross Needle Meters

Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6"l x 4 1/2" h x 4 1/2" d (approx.)

CN-801HP

PEP Reading SWR/Power Meter

Frequency Range: 1.8-200MHz

Forward Power Ranges: 20/200/2000W

CN-801V

Frequency Range: 140-525MHz

Forward Power Ranges: 20/200W

CN-801SH

Frequency Range: 900-2500MHz

Forward Power Ranges: 2/20W



Economy Series

Accurate and dependable bench meters at an economy price. Lighted, 13.8VDC jack on rear panel. 6"l x 3" h x 4" d (approx.)

CN-101

Frequency Range: 1.8-150MHz

Forward Power Ranges:

15/150/1500W

CN-103M

Frequency Ranges: 140-525MHz

Forward Power Ranges: 20/200W

CN-103N (N-Type Conns)



NEW! POWER SUPPLY

SS-330W

Convenient, lightweight 30 amp switching supply.

30 amps continuous

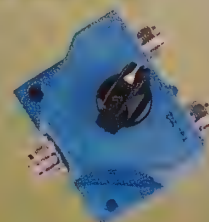
Dual meters

Adjustable voltage (5-15V)

Built-in fan

Weighs less than 5 lbs.

Carrying handle



Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

CS-201

2-Position 600MHz Switch

Max. Power: 25kW PEP/1kW CW

Conns: SO-239

CS-201GH

2-Position 2GHz Switch

Max. Power: 15kW CW

Conns: Gold plated N-Type



SS-505

Lightweight switching power supply

50 Amp Continuous, 55 AMP peak

Adjustable voltage, 5-15V

Can be used for DC motors requiring peak start-up voltage

Dual-use V/A meter

Built-in fan

Weight: 8lbs 6 oz



(714) 630-4541 * (800) 962-2611

(714) 630-7024 fax

www.natcomgroup.com



CRANK IT UP!

MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas 10 sq. ft. in 50mph winds, depending on the model.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are lightweight, freestanding, and allow up to 18 sq. ft. of antennas in 50mph winds (433HD will handle 24 sq. ft.).

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. Will handle 18 sq. ft. of antennas in 50mph winds. All bases will accept the TRX Series raising fixtures.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 30 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

- See **US TOWER** in the Price Guide for Models & Prices
- Download a **US TOWER** Catalog at ustower.com

U.S. Towers are drop shipped direct from the factory. Shipment is FOB Woodlake, CA or Lincoln, KS via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

WARNING!

The Ham Towers shown here are not designed for snow or ice loading. These towers must be fully retracted prior to any snow or ice environmental event. Contact US Tower for information on Ham Towers designed for snow and ice.

UNIVERSAL TOWERS

**ALUMINUM, FREESTANDING,
SELF-SUPPORTING AT RATED LOAD**

**LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE
RUGGED STRENGTH for AMATEUR RADIO • TV • FM
INDUSTRIAL FIRE • POLICE • MARINE**

Consider the advantages of -

ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available with 11, 14, 18, 22, 26 or 30 in. wide base sections and a choice of windload rating and accessories.



UNIVERSAL 50 ft. Self-Supporting Aluminum Tower Installed at K9KHW Milwaukee, WI



No Guy Wires!

- Write or Call for a **FREE UNIVERSAL TOWERS** Catalog
- See **UNIVERSAL** in the Price Guide for Configurations
- More **UNIVERSAL** information at universaltowers.com

UNIVERSAL towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.



**Aluminum Towers • Tower Packages
Roof-Top Towers • Hazers • Masts
Tower Climbing Safety Equipment
Grounding & Lightning Protection**

- See **GLEN MARTIN** in the Price Guide
- Download a **GLEN MARTIN** Catalog at glenmartin.com

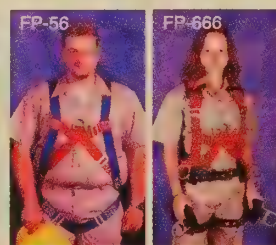
Glen Martin towers are drop shipped direct from the factory. Shipment is FOB Boonville, MO via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.

TowerMate LE™ Full Body Climbing Harnesses

- FP-56222** - (2) D-ring, 2.7 lbs., S-L. **\$81.99**
- FP-56224** - (2) D-ring, 2.8 lbs., L-XL. **\$81.99**
- FP-56422** - (4) D-ring, 3.0 lbs., S-L. **\$94.99**
- FP-56424** - (4) D-ring, 3.2 lbs., L-XL. **\$94.99**

EagleTower LE™ Full Body Climbing Harnesses

- FP-66611** - (6) D-ring, 5.1 lbs., S. **\$238.99**
- FP-66612** - (6) D-ring, 5.2 lbs., M. **\$238.99**
- FP-66613** - (6) D-ring, 5.3 lbs., L. **\$238.99**
- FP-66614** - Six D-ring, 5.4 lbs., XL. **\$238.99**



SP-Certified

hy-gain ROTATORS

... the first choice of hams around the world!

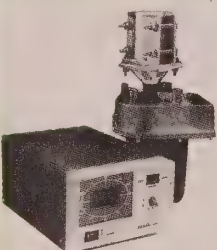


The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. **\$619.99**

Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/98 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (JSC 5971 or 5972)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3". **\$1349.99**

HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (JSC 5971 or 5972)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.

The TAILTWISTER SERIES II



is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control. **\$729.99**
T-2XD with DCU-1 control. **\$1179.99**

TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/ mast adapter)	10 square feet
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (JSC 5971 or 5972)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.

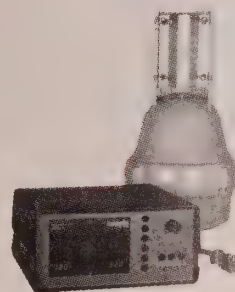


The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support. **\$329.99**

AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (JSC 5971 or 5972)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.

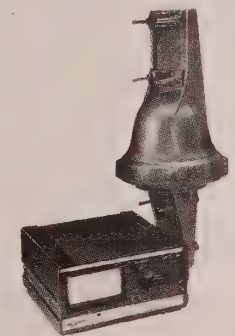


THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Max. mast size: 2.063 in. **\$929.99**

HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (JSC 5971 or 5972)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.



The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support. .. **\$429.99**

CD-45-II Specifications

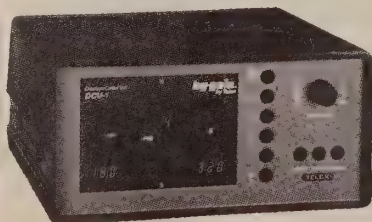
Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (JSC 5971 or 5972)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.

Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD. **\$109.99**
MSLD Lower mast support for CD-45-II, AR-40. **\$49.99**
TSP-1 Tower spacer plate. **\$34.99**

JSC Rotator Cable

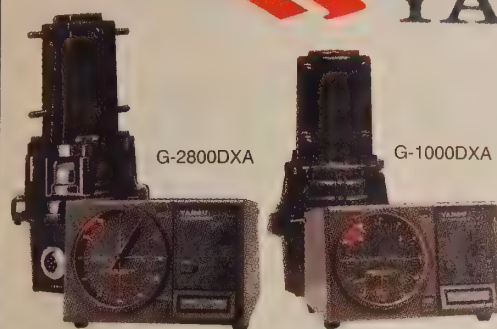
- 5971** Standard duty, 8-wire; 2-18 ga. & 6-22 ga.
5972 Heavy duty, 8-wire; 2-16 ga. & 6-18 gauge.
See JSC on Page 13 in the Price Guide



The DCU-1 PATHFINDER

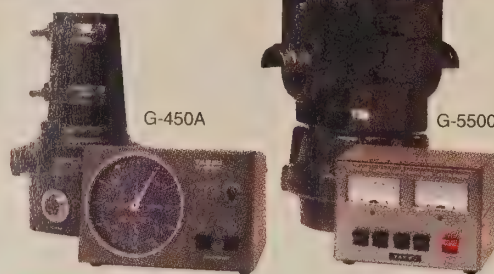
Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs. **\$699.99**



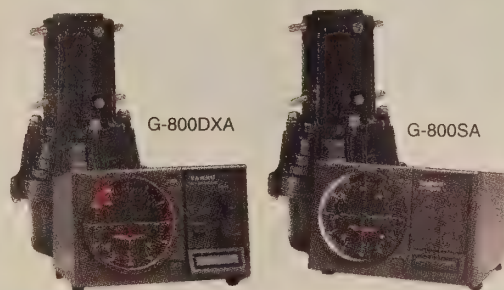
G-2800DXA

G-1000DXA



G-450A

G-5500



G-800DXA

G-800SA

ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875-2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs. **CALL/WEB**

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5-2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs. **CALL/WEB**

G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft. lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable. Dim: 7.5"dia. x 12.5"h; 7 lbs. **CALL/WEB**

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft. lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5-2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25-1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5"dia. x 7.5"h; 20 lbs... **CALL/WEB**

G-550 – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft. lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5-2.5 in. mast size; 67 second 180° elevation; 1.25-1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs. **CALL/WEB**



G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5" dia. x 12.5"h; 7.5 lbs. **CALL/WEB**

G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 4-wire cable. Dim: 7.5"dia. x 12.5"h; 7.5 lbs. **CALL/WEB**

ACCESSORIES

GC-038 – Mast clamp..... **\$39.99**
GC-048 – Mast clamp for G-2800DXA..... **49.99**
GS-050 – 50mm thrust bearing (1.25"-2"). **34.99**
GS-065 – 65mm thrust bearing (1.5"-2.5"). **54.99**
GS-232B – Interface for DXA rotators.... **589.99**
C-1000 – GS-232B cable for SDX's/5500... **34.99**
GS-680U – Universal, self adjust. bearing. **89.99**
SEP KIT Separation kit for G-5500. **29.99**

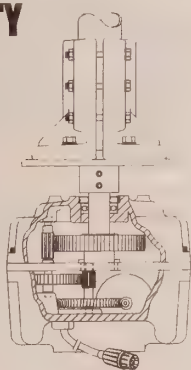
K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna

MF² SUPER DUTY Rotator

OR-2800PDC Rotator

The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display.

Specifications: 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75-3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 15.75"h total, 9.75"h rotor; 42 lbs. **\$1399.99**



Channel Master®

9521A Light Duty Rotator



Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

Control Unit: Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy. **\$119.99**

ECG®

U-105 Light-duty Rotator

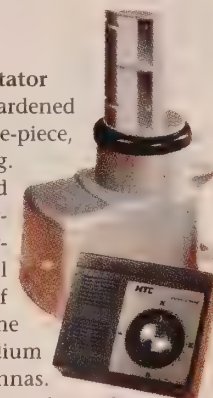
Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction..... **\$79.99**

Control Unit: 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator. Dim: 7"w x 5.875"d x 2.375"h

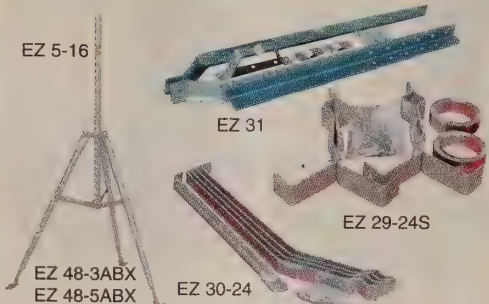
Rotator Unit: 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

U-106 Light-duty Rotator – Similar to U-105 but with Presets and Infrared remote... **\$89.99**

TB-105 Thrust Bearing – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **\$29.99**



EASYUP SMALLER ANTENNA MOUNTING SOLUTIONS



Easy-Up Tri-Pods are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and lag screws.

- EZ 48-3ABX** - 3 ft. high, 8.5 lbs. **\$49.99**
- EZ 48-5ABX** - 5 ft. high, 12 lbs. **\$69.99**
- EZ 29-24S** HD Double-strap Chimney Mount Includes two "Y" type mounting brackets and 24 ft. of stainless steel strap. **\$29.99**
- EZ 30-24** - Deluxe wall mount with third support leg. **\$39.99**
- EZ 31** - H.D. adjustable eave mount. **\$34.99**
- EZ 70** - 2.5-3.75 in. steel (or equivalent) vent pipe mount (PVC not recommended)... **\$24.99**
- EZ 5-16** - 5 ft. 1.25 in. OD steel mast for any of the mounts above. (store pickup only) **\$16.99**

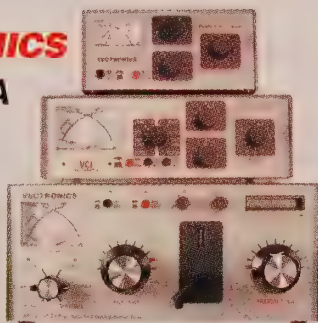
GuyTie®



Multiple attach point guy line connector. Accepts up to 1/4" diameter guy lines to stabilize Radio/TV antenna masts.

- 2104211** - For 1" outside diameter mast... **\$4.99**
- 2104213** - For 1.25" outside diameter mast... **4.99**
- 2104215** - For 1.5" outside diameter mast... **4.99**

VECTRONICS ANTENNA TUNERS



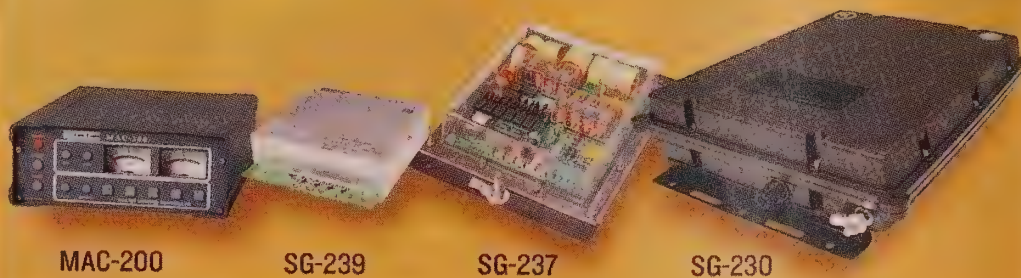
- VC-300M** Mobile Tuner (top) - Tunes mobile whips, verticals, dipoles, inverted Vs, beams - anything fed by coaxial cable. Covers 1.8-30 MHz at 300W continuous power. The dual-movement Cross-Needle monitors RF power output and SWR. Dim: 7.25"w x 3.5"h x 8.75"d; 2.5 lbs. **\$129.99**
- VC-300DLP** (middle) - Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load. Dim: 10.25"w x 3.5"h x 9.5"d; 3.4 lbs. **\$169.99**
- HFT-1500** (bottom) - Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital bar-graph; Built-in 6-position antenna switch and 4:1 balun. Dim: 12.5"w x 5.5"h x 12"d; 10 lbs. **\$439.99**



Smartuners™

Automatic Antenna Couplers

Stop tuning, start talking.



Smartuners™ are the most versatile and reliable automatic tuning antenna couplers available. Using power levels from 1.5 to 500 Watts and with frequency ranges spanning the HF bands from a single antenna, they provide all-purpose automatic tuning ideal for base, mobile or portable operation. Just provide 12V, connect to transceiver, antenna and ground, and get on the air with minimum SWR.

Visit sgcworld.com for a detailed review of the Smartuner family, and find the right one for your needs. Stop tuning, start talking.

54-14 SG-230 Original Smartuner™

Covers 1.8 to 30 MHz and rated at 200 Watts. Dim: 12.2"w x 3.2"h x 16.2"d; 8 lbs. **\$499.99**

54-15 SG-235 High Power

Covers 1.8 to 30 MHz and rated at 500 Watts. Dim: 12.2"w x 3.2"h x 16.2"d; 8 lbs... **\$1099.99**

54-18 SG-237 General Purpose Smartuner™

Covers 1.8 to 60 MHz and rated at 100 Watts. Dim: 7"w x 1.5"h x 9"d; 2 lbs. **\$299.99**

54-22 SG-239 Budget Smartuner™

Covers 1.8 to 30 MHz and rated at 200 Watts. Dim: 6"w x 1.9"h x 7.5"d; 2 lbs. **\$195.99**

54-25 MAC-200 Master Antenna Controller - Operates as your base station control center, eliminating additional switching and tuning. With two built-in computers, using Smartuner™ technology, the MAC-200 can select and tune up to 5 different balanced or unbalanced antennas automatically in less than 2 seconds. The 168 built-in memories can instantly recall previous settings, allowing retuning in less than 10 milliseconds. Convenient meters on the front panel monitor your power and SWR. Covers 1.8 to 60 MHz using 1.5 to 200 Watts. Dim: 6.5"w x 3"h x 8.5"d; 5 lbs. **\$265.99**

MFJ ANTENNA TUNERS



9982 Continuous Carrier™ Antenna Tuner - Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak and average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels and high-current, 1000 pF and 500 pF air variable capacitors. Dim: 13.75"w x 7"h x 16"d; 15 lbs. **\$649.99**

998 Intellituner™ - Covers 1.8 to 30 MHz, rated at 1500W SSB/CW. Ultra-fast automatic tuning matches impedance from 12 to 1600Ω using MFJ's exclusive IntelliTune™, AdaptiveSearch™ and InstantRecall™ algorithms, and over 20,000 VirtualAntenna™ memories. Key your transmitter and InstantRecall™ determines whether that frequency has been used before. If so, tuning is instantaneous. If not, an algorithm measures the impedance, selects the necessary components, and then fine-tunes the SWR. If the antenna impedance is outside the tuner's measurement range, Adaptive Search™ measures the frequency and determines relevant component values for fast tuning. MFJ's Amplifier Bypass Control™ (requires interface cable) provides safe tuning. On initiation, any in-line amplifier is bypassed. Next, a low-power CW tuning carrier from your transceiver is keyed. When tuning is complete, your transceiver reverts to its prior power and mode, and re-enables the amplifier. If a match better than a pre-set amplifier SWR trip point cannot be found, the amplifier stays bypassed. A Cross-Needle SWR/Wattmeter displays 300/60W or 3000/600W forward and reflected full-scale power ranges. A two-line, 16-character backlit LCD meter displays SWR, forward/reflected power, frequency, antenna selected, an auto ranging bar-graph power indication, and the final matching inductor and capacitor values. A memory system provides four antenna selections for each of the two switchable rear panel antenna connectors. A rear binding post for end-fed long wire antennas, balanced line antennas require an external 1.5kW 4:1 balun (MFJ-912). Requires 10-15VDC @ 1.3 amps. Dim: 13"w x 4"h x 15"d; 9 lbs. ... **\$649.99**

Interface Cables for MFJ-998 Intellituner:

- 5114I** Icom Cable - Supports radios compatible w/AH-3 or AH-4 such as IC-706/718/746/756/7000/7600. **\$19.99**
- 5114K** Kenwood Cable - Supports radios compatible with AT-300 such as TS-50/570/2000. **19.99**
- 5114Y** Yaesu Cable - Supports radios compatible with CAT system such as FT-100/817/857/897. **19.99**

MFJ ANTENNA TUNERS



902



989D

AUTOMATIC TUNERS



993B front/back



991B/994B

Interface Cables for 991/993/994:

- 5124I Icom Radio Cable**
Supports radios compatible with AH-3 or AH-4 such as IC-706/718/746/756/7000/7600. ... **\$19.99**
- 5124K Kenwood Radio Cable**
Supports radios compatible with AT-300 such as TS-50/570/2000. **\$59.99**
- 5124Y Yaesu Radio Cable**
Supports FT-100/857/897... **\$59.99**

902 Tiny Travel Tuner – Only 4.5" w x 2.25" h x 3" d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter. **\$99.99**

945E Mobile Tuner – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8" w x 2" h x 6" d. **\$119.99**

941E Versa Tuner II – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625" w x 2.875" h x 7" d. **\$129.99**

934 Antenna Tuner/Artificial Ground – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625" w x 3.5" h x 8" d. **\$199.99**

948 – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter. **\$149.99**

949E Deluxe Versa Tuner II – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625" w x 3.5" h x 7" d. **\$169.99**

969 Deluxe Versa Tuner II – Covers 160–6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5" w x 3.875" h x 9.5" d. **\$199.99**

962D Versa Tuner III – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.75" w x 4" h x 10.875" d. **\$279.99**

986 Differential-T Tuner™ – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75" w x 4.5" h x 15" d. **\$319.99**

989D Versa Tuner V – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 12.87" w x 6" h x 11.6" d. **\$349.99**

993B IntelliTuner™ 300W Auto Tuner – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10" w x 2.75" h x 9" d. **\$249.99**

991B IntelliTuner™ 150W Auto Tuner – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms. **\$209.99**

994B IntelliTuner™ 600W Auto Tuner – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed. **\$339.99**



974HB



931

974HB Balanced Line Tuner – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with separate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5" w x 6" h x 8" d. ... **\$199.99**

974B Balanced Line Antenna Tuner – Same as 974HB but 3.5–54 MHz (no 1.8 MHz). ... **\$179.99**

931 Artificial Ground – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5" w x 3.5" h x 7" d. Not for coax fed antennas. .. **\$99.99**



903

906

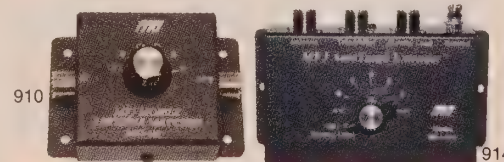
906 6 Meter Antenna Tuner/Meter – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8" w x 2.5" h x 3" d. **\$99.99**

903 6 Meter Antenna Tuner – Similar to 906 but without the meter and bypass switch. **\$69.99**



921 144/220 MHz Antenna Tuner/Meter – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8" w x 2.5" h x 3" d. **\$89.99**

924 440 MHz Antenna Tuner/Meter – Similar to 921 but 440 MHz band only. **\$89.99**



910

914

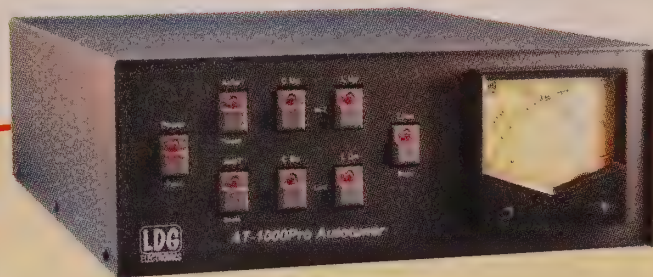
910 Mobile Antenna Matcher – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5" w x 2.5" h x 1.5" d. .. **\$29.99**

914 Auto Tuner Extender – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position. **\$79.99**

LDG

ELECTRONICS

The #1 Line of Autotuners!



AT-1000Pro HF/6M Automatic Antenna Tuner

Building on the success its flagship AT-1000, LDG Electronics has refined and expanded its 1KW tuner. The new AT-1000Pro has an Auto mode that will automatically start a tuning cycle when the SWR exceeds a preset limit. There are provisions for two antennas and for each antenna there are 2,000 memories that store tuning parameters for almost instantaneous tuning when you transmit on or near a frequency you've used before. *Just key and it tunes!*

- Continuous coverage: 1.8 to 54 MHz (includes 6 meters).
- Power Rating: HF (1.8–30 MHz): 1000W SSB, 750W CW, 500W Digital (RTTY, Packet, etc.); 6 meters: 250W any mode.
- Operates at any power level between 5–1000W peak RF input.
- Relay protection software prevents tuning at greater than 125W and greater than 75W into a 3:1 SWR load.
- Cross-Needle SWR/Wattmeter with selectable 100W/1000W ranges.
- Soft touch buttons for easy operation.
- Tuning time 4 seconds, or under 0.2 seconds when operated near a frequency with stored parameters.
- Tunes just about any antenna between 6 to 1000Ω (approximately 10:1 SWR, 3:1 on 6 meters).
- Supplied with 6 ft. power and ICOM/YAESU interface cables.
- Requires user supplied power, 11–15V DC @ 1A.
- Dim: 9.5"w x 3.5"h x 13"d; 5.2 lbs
- **\$549.99**

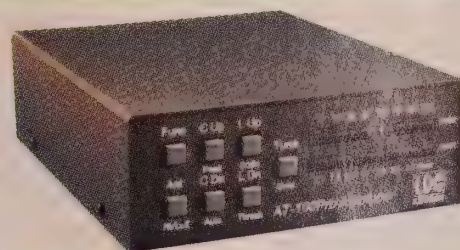


AT-200Pro Designed for 200W Class Transceivers

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz and 100W on 54 MHz (6 meters). Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. All cables included. Dim: 8.5"w x 2.0"h x 6"d; 2 lbs. **\$229.99**

AT-600Pro Designed for 500W Mid-Size Amps

The same but will handle up to 600W SSB or CW and 300W RTTY on 1.8 to 30 MHz and 250W on 54MHz. It features LDG's state-of-the-art, processor-controlled Switched-L tuner. Dim: 8.5"w x 2.5"h x 10.5"d; 3 lbs. **\$329.99**



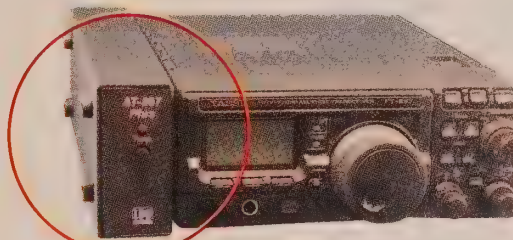
AT-100ProII Automatic Antenna Tuner

The new model keeps all the features of the old unit, but adds an antenna indicator and a bypass indicator on the front panel. Covers all frequencies from 1.8 to 54 MHz (including 6 meters). It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100ProII requires just 1W for full operation, but will handle up to 125W (100W on 6 meters). The AT-100ProII includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as they are used. Dim: 7.5"w x 5.5"h x 2.0"d; 1.5 lbs. **\$219.99**



KT-100 Automatic Antenna Tuner for Kenwood

If you have an AT-300 compatible Kenwood radio, you can simply plug the KT-100 into your transceiver with the provided cable; the interface powers the tuner, and the TUNE button on the radio begins a tuning cycle. Provides 2,000 memories for instant recall of the tuning parameters for your favorite band and frequencies. Covers 1.8 to 54 MHz, handles 125W SSB/CW (100W on 6M). Dim: 6.5"w x 1.25"h x 6.5"d; 2 lbs. **\$199.99**



AT-897Plus Automatic Antenna Tuner for FT-897

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897Plus mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897Plus takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier. The FT-897 shown attached to the tuner is not included. Dim: 1.5"w x 3.25"h x 11.5"d; 2 lbs. **\$199.99**



IT-100 100W Tuner for ICOMs

Designed to work with IC-7000, IC-706, IC-703, IC-718, IC-746, IC-756 and any ICOM radio that is compatible with the ICOM AH-4 tuner. Covers 1.8 to 54 MHz continuous, including MARS. Rated 0.1 to 125W SSB, CW and Digital modes (100W on 6 meters). Front panel push button with LED status indicators selects manual or automatic tuning that will match up to 10:1 SWR (3:1 on 6M). You can control the IT-100 and its 2000 memories from either its own button or the Tune button on the ICOM rigs. Uses latching relays for ultra-low power consumption. Powers from your radio and includes interface cable and a coax jumper cable. Dim: 6.5"w x 1.5"h x 6.5"d; 1.5 lbs. **\$179.99**

LDG Autotuners include All Cables Ready to Go!



YT-100 100W Tuner for Yaesu

An included CAT cable interfaces with your FT-857, FT-897 and FT-100 (including all D models). Covers 1.8-54 MHz and MARS. Handles 1 to 100W SSB/CW and Digital. Tunes 4 to 800Ω (16 to 150Ω on 6 meters). SO-239 in and out connectors. Has 2000 memories for quick tuning. No extra power cables are needed. Just press the TUNE button on the tuner and everything else happens automatically – the mode is set to carrier and the RF power is reduced, a tune cycle runs and then the radio is returned to the original settings.

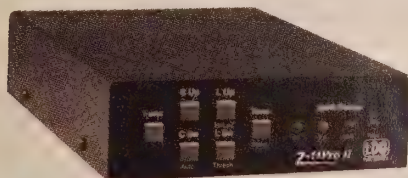
Dim: 7.0" w x 7.0" h x 1.5" d; 20 oz. **\$199.99**



Z-817 QRP Autotuner for FT-817

A provided cable interfaces the Z-817 to the CAT port (ACC) on the FT-817. Covers 1.8-54 MHz and MARS. Handles 0.1 to 20W SSB/CW and Digital. Quick tuning from 2000 memories (200 with other radios). One button push will switch the 817 to PKT mode, transmit a carrier, tune the tuner; then restore the radio to the previous mode. Works well with other QRP radios – just transmit a carrier and press the TUNE button on the tuner. On standby there's zero by power drain from the four "AA" batteries that last about a year under normal operation.

Dim: 4.7" w x 1.7" h x 5.1" d; 9.3 oz. **\$129.99**



Z-11ProII Portable Tuner

Everything needed in a small, portable, battery operated tuner. It handles 0.1 to 125 Watts (100W on 6 meters), ideal for both QRP and 100W transceivers from 160 to 6 meters. With 2,000 memories, the Z-11ProII uses LDG's state-of-the-art processor-controlled switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line. Dim: 5.0" w x 1.5" h x 7.5" d; 1.5 lbs. **\$179.99**



Z-100PLUS Economy Tuner

A small, lightweight package; perfect for portable or in the shack. Uses latching relays for ultra-low consumption – 6 "AA" batteries provide power for a year. Rated 0.1 to 125W SSB/CW and Digital from 1.8 to 54 MHz (100W on 6 meters). Tunes 6 to 800Ω (16 to 150 on 6M). Frequency and parameters store in up to 2000 memories to tune in just 0.1 seconds; full tune in about 6 seconds. Includes Icom and Yaesu FT-857/897 interface cables and coax jumper. Dim: 5.5" w x 1.5" h x 5.25" d; 16 oz. **\$159.99**



YT-450 Automatic Antenna Tuner for FT-450/FT-950

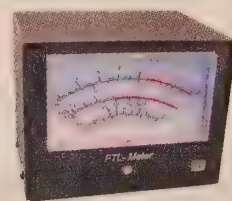
Simply connect the tuner to the radio with the supplied cables and you are ready to operate. DC power and all controls are done through the interface cable. Just press the TUNE button and the rest happens automatically: Mode and Power are set, a tune cycle runs and the radio is returned to its original settings. Match coax fed antennas with an SWR up to 10:1, 200 memories recall settings in an instant! CAT port on the back for PC connection. Dim: 7.0" w x 7.0" h x 1.5" d; 20 oz. **\$249.99**

YT-847 Autotuner for the Yaesu FT-847 – Same features and specifications as the YT-450. **\$249.99**



FT-METER Multi-function Metering Capability for FT-857(D) & FT-897(D)

Features a lush, highly readable 2.5 inch meter face with calibrated scales for Signal strength and Discriminator reading on receive, and Power output, SWR, Modulation, ALC action and supply voltage on transmit. LED back-illuminated in cool, high-visibility blue, easily visible from anywhere on your desk or dash. For illumination it requires an external 12V DC source. Rear On/Off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio. Dim: 3.6" w x 3" h x 2.6" d; 0.5 lbs. **\$49.99**



FTL-METER
M-7700
M-7600

FTL-METER Meter for FT-857/897(D)

All features and function of the FT-METER above, but with a larger highly readable 4.5 inch meter. Dim: 4.5" w x 4.5" h x 4.0" d; 1 lb. **\$79.99**

M-7700 Meter for Icom IC-7700

Large 4.5 in. meter displays S-meter on receive or power out, SWR, ALC level or supply voltages all selectable from the rig's setup menu. The M-7700 and the radio's virtual meter can work together like displaying SWR on the IC-7700 meter and power output on the M-7700. Blue LED backlighting requires 12V @ 250mA. Calibration and brightness controls. Dim: 4.0" w x 5.7" h x 4.0" d; 1 lb. **\$79.99**

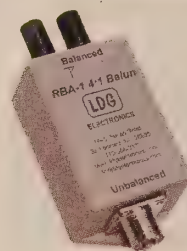
M-7600 Similar but for the IC-7600... **\$79.99**



2-Year Transferable Warranty!

A warranty is a promise, a promise of quality and service life. LDG, the leader in the autotuner industry, now offers a standard no-questions-asked 2-Year Transferable Warranty. When something is wrong with an autotuner, switch or meter, LDG will fix it – period.

Accessories



RBA Baluns

Install at the coaxial output of your LDG (or other) tuner or transceiver to allow use of longwires and antennas fed with ladder line. A choice of a 4:1 impedance transformation or 52Ω input/output. Both cover 1.8-30 MHz and handle up to 200W continuous. Can be easily waterproofed for outdoor use. Dim: 2.5" w x 1.25" h x 5" d; 6 oz.

RBA-1:1 1:1 200W current balun. **\$30.99**

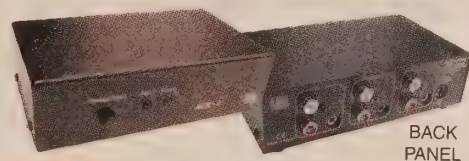
RBA-4:1 4:1 200W voltage balun. **\$30.99**



RCA-14 Breakout Box

Simply plug the RCA-14 into your radio's accessory jacks, and all your ports are right there at your fingertips. Plug and play, includes 5 interface cables (DIN-13, mini DIN-6, mini DIN-8 and RCA) for popular Icom, Yaesu, Kenwood and TenTec transceivers.

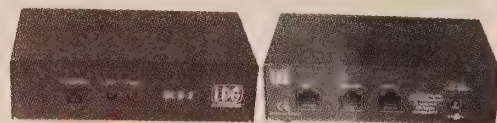
Dim: 6.5" w x 1.5" h x 3.5" d; 1 lb. **\$59.99**



BACK
PANEL

ALK-2 Audio/Linear/Key Switch

The ALK-2 is a switch box for speakers, keyers, ALC lines or whatever you need. Push button electronically switches a common 1/8" stereo jack and stereo/RCA jacks between two other sets of 1/8" stereo/RCA jacks. LED indicator. 12VDC @ 100mA. Dim: 6.5" w x 1.5" h x 3.5" d; 1 lb. **\$49.99**



SLS-2 Microphone Switch

For transceivers using RJ-45 microphone connectors. It has two switched jacks and one common jack. A push button switches one microphone between two radios, or one radio between two microphones. An LED indicates the selection. Requires 12 VDC @ 100 mA.

Dim: 6.5" w x 1.5" h x 3.5" d; 1 lb. **\$59.99**

CREDIT CARD CONVENIENCE!



We also accept Government Credit Cards

AMERITRON**LEGAL LIMIT ANTENNA TUNER**

ATR-30 – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160 Meters. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in a T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun, 6-position antenna switch, 6:1 vernier reduction drives and crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25" w x 5.6" h x 17.5" d. **\$559.99**

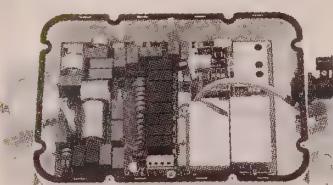
ATR-20 Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters. Dim: 13.5" w x 5.5" h x 13.5" d. **\$429.99**



AT-180



AH-4



AH-2B

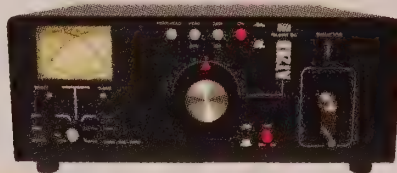
AH-4 Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers; just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7" w x 2.7" h x 9" d. . **CALL/WEB**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC. Dim: 6.5" w x 2.3" h x 8.9" d; 5.3 lbs. ... **CALL/WEB**

AH-2B Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long. **\$399.99**

**PALSTAR****MANUAL ANTENNA TUNERS**

Made in the U.S.A. • Innovative Design
Palstar Quality • Conservative Ratings
Peak & Hold Cross-Needle Metering
Powder coated Panel and Top Cover



AT-2KD – Combines the famous AT-1500DT and AT-1KP into a new 2KW PEP Tuner with all the features, such as: peak and peak-hold; a resonant free roller system to operate from 160-6M continuously; new LED lit meter system; and new compact size. Impedance matching range from 20 to 1200 ohms. Six-position mode switch for multiple antennas. Dim: 13.2" w x 5.75" h x 12" d; 12 lbs. **\$529.99**

4:1 BALUN Current Balun – For AT-2KD. **\$49.99**



AT-2K – 160-6M, 2KW PEP. Smaller roller inductor for 6M, relay-switched toroid adds extra inductance for 160M. Lower minimum capacitance and higher maximum capacitance. 6-position antenna switch. Peak/Peak Hold 300/3000W metering; 4:1 balun; Dim: 14.5" w x 5" h x 13.5" d; 17lbs **\$529.99**



AT-4K – 160-10M, 2.5KW single tone continuous. Unbalanced/balanced output; T-match network with 1:1 unbalanced-to-balanced INPUT transformer; Cross-Needle metering. Large variable capacitor; silver-plated roller inductors; Switched antenna inputs. Dim: 15" w x 7" h x 16" d; 20 lbs. **\$895.99**



AT-5K – 160-10M, 3.5KW single tone continuous. Balanced OUTPUT, 5kW balun at the INPUT; Large plate capacitors; Rugged, 10 Amp roller inductor; Dim: 16" w x 8" h x 18" d; 30 lbs. **\$1195.99**



BT-1500A – 160-10M, 1500W PEP. Double-L network balanced tuner. Two tandem roller inductors and dual-section capacitor; Peak/Peak-Hold Cross-Needle metering. **\$695.99**

For more detailed info go to: www.palstar.com

**The Better RF Company
TUNE CONTROLS**

Tune up Control for
Yaesu FT-100, FT-450,
FT-950, FT-857 & FT-897

Controls the radio's [TUNE] button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., no matter what mode you are using. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers. **YAETUNECONT \$44.99**



7000 TUNE CONTROL 706 TUNE CONTROL

Tune up Control for IC-706/718 – Plugs into the Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No switching to AM or RTTY or holding the PTT. Works 160–6M (not 6M with the original IC-706) **706TUNECONT \$32.99**

Tune up Control for the IC-7000 – Activates the [TUNE/CALL] button on your IC-7000 to tune an antenna or an external tuner while displaying the SWR on the radio. Senses the voltage on a screwdriver antenna motor for automatic on and off of the tune mode. User selectable tune-up power can be a constant 30W or pulsed at a 50% duty cycle. No modifications. The supplied cable connects to the radio's CI-V jack. It utilizes the CI-V data port and the tuner port for SWR readout, frequency and the radio's preprogrammed sequencing of the tuner port. Last frequency memory. **7000TUNECONT \$64.99**

Screwdriver Antenna Control for IC-7000

Integrates directly with the Icom IC-7000, the 7000 Tune Control and any screwdriver antenna. It automatically funds resonance with the push of the [TUNE] button on the IC-7000. Requires no connections or modification to the antenna or radio. Antenna SWR displays on the IC-7000 **7000SCDRCONT \$99.99**

**COMET RV Ladder Brackets**

106105 RV Ladder Brackets – Designed to easily attach to any standard RV ladder or a flat surface of a house or fence to hold an antenna mast or flag pole. The mast slips easily into the upper bracket, then drops down into the lower bracket from ground level. No need to climb the ladder to set up or take down the mast. Accepts the CP-45 or 1.5 in. diameter masts up to 16 ft. long. **\$54.99**

CP-45 Aluminum Telescoping Mast – 1.375 inch diameter, 14 ft. 8 in. tall. **\$99.99**

See demo at: www.flagpolebuddy.com



259B

MFJ SWR Analyzers



249B



269

MFJ SWR ANALYZER ACCESSORIES



29C / 39C

731

66

1312D AC Adapter – Outputs 12 VDC for charging the NiMH batteries or to operate the 249B, 259B or 269 without batteries. **\$15.99**

29C Carrying Case – Cushion and protects your 249B/259B. Tote it, wear it around your waist, over your shoulder, or clip it onto the tower. Back pocket holds dip coils and coax adapters. **\$24.99**

39C Carrying Case – Fits the 269. **\$24.99**

66 Dip Meter Adapter – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz. **\$24.99**

731 Tunable Measurement Filter – Use with 249B, 259B or 269 for 1.8-30 MHz measurements in the presence of strong RF fields from nearby broadcast stations or other RF sources. **\$99.99**

92AA10 10 Pack – “AA” NiMH Batteries. **\$29.99**

98 Accessory Pack – Includes 39C case, 66 dip adapter and 1312D AC adapter. **\$59.99**

98B Accessory Pack – Includes 10 “AA” NiMH batteries, 39C case, 66 dip coils and AC adapter. **\$93.99**

99 Accessory Pack – Includes 29C case, 66 dip coils and 1312D AC adapter. **\$59.99**

99B Accessory Pack – Includes 10 “AA” NiMH batteries, 29C case, 66 dip coils and AC adapter. **\$93.99**

99C Accessory Pack – Includes 10 “AA” NiMH batteries and 1312D AC adapter. **\$45.99**

NIFTY MM-MFJ259B Mini-Manual for MFJ-259B – Compact 8 page reference guide. **\$12.99**

NIFTY MM-MFJ269 Mini-Manual for MFJ-269 – Compact 8 page reference guide. **\$12.99**

You can ensure your antenna system is giving you top performance by using an MFJ SWR Analyzer. They're completely portable test stations, featuring a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance/Inductance Meter and more.

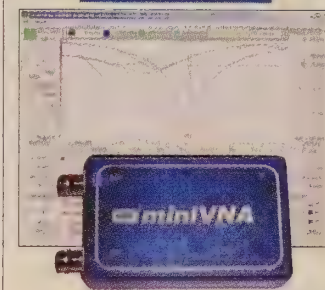
- Self-contained and fully portable with built-in battery power. You can take it to the antenna, and just one reading gives you the complete picture, allowing quick tuning adjustments on the spot.
- Simple Operation – just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters (259B/269).
- When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.
- Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

Powered by (10) AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries (not included), or 110V with the MFJ-1312D adapter. There is a built-in charger circuit that requires external 12VDC or the 1312D adapter. The 249B and 259B have an SO-239 antenna connector, the 269 has a Type-N female and is supplied with a Type-N to SO-239 adapter. All metal cabinet. Dim: 4"w x 6-3/4"h x 2"d.

259B SWR Analyzer – Covers 1.8-170 MHz, two-line LCD screen and side-by-side meters. **\$269.99**

249B SWR Analyzer – Same coverage as the MFJ-259B but less analog meters. Reads SWR, true impedance magnitude and frequency (only) on the LCD panel. **\$249.99**

269 SWR Analyzer – Has all the features of the 259B, plus 415 to 470 MHz coverage. A CoaxCalculator™ feature calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Measures Complex Impedance SWR and loss of coax from 10 to over 600Ω. **\$349.99**



Software-Defined, PC-based HF/VHF Antenna Analyzer

MINIVNA – Connects to your computer and antenna to display selected parameters on the PC's screen. Quickly analyzes any antenna over a user defined frequency range 0.1 to 180 MHz. PC display shows resonance, the SWR and return loss. Two markers can be placed within the shown frequency range to measure impedance, resistance, phase and other values at those points. Measure cable losses, cable length, transmission, bandwidth, quality of filters and more. Connect via USB 1.1 or 2.0 cable, or select RS-232 to use the miniVNA with a wireless Bluetooth® adapter. In this case, both the adapter and the miniVNA must be powered from an external source, and the computer must have a Bluetooth interface. This set-up enables remote measurements, for example, right at the base of an antenna. Software runs on Windows™ or Linux™ OS. BNC connectors. Dim: 3.3"w x 3.5"h x 1"d... **\$399.99**

PALSTAR ANTENNA ANALYZER

ZM-30 – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low-power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for installing field upgradeable software. Battery operation, take it right to the antenna. Durable, powder coated front panel. Dim: 3"w x 4"h x 2"d. **\$399.99**



AntennaSmith™ Antenna Impedance Analyzer



- Full Color TFT LCD Graphic Display
- Covers 0.2 to 55 MHz
- SWR • Impedance (Z) • Reactance (r+jx)
- Reflection coefficient (ρ , θ) • Smith Chart

Day/Night Always-Visible Display
Transreflective TFT LCD color display

Full Graphics - Rapid update

Data graph updates every 2-seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system.

Adjustable Frequency Cursor/Generator

Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph.

Rugged and Portable

Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger is included.

Models in stock at our Milwaukee Location:

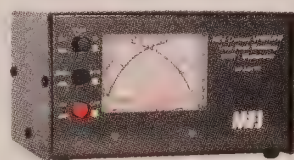
TZ-900S with SO-239 connector. **\$899.99** **TZ-900N** with Type-N connector. **\$899.99**

MFJ**SWR/POWER METERS**

864 (bottom) – Three band coverage: 1.8–60 MHz, 144 MHz and 440 MHz. Power Ranges: 30/300W forward and 6/60W reflected. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Requires 12VDC for meter light. Dim: 7.25" w x 2.5" h x 2.25" d. **\$89.99**

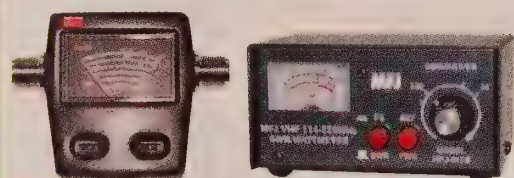
862 (center) – Covers 144, 220 and 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75" w x 2.5" h x 2.25" d. **\$69.99**

860 (top) – Covers 1.8–60 MHz. Ranges: 30/300W forward and 6/60W reflected power. Dim: 4.5" w x 2.25" h x 3" d. **\$59.99**



815C – Simultaneously reads true peak or average power and SWR simultaneously on a 3-inch illuminated Cross-Needle meter. Covers 1.8–30 MHz, has 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6" w x 3.5" h x 4.5" d. **\$89.99**

817C – Same as 815C but for 144, 220 and 440 MHz bands, has 300/30W forward and 60/6W reflected power ranges. **\$99.99**



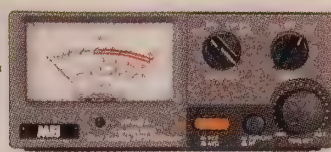
812B (right) – Indicates forward/reflected power on 144/220 MHz bands. Also, SWR 144 to 220 MHz, and field-strength 1 to 220 MHz. Power ranges: 30 & 300W. Dim: 4.5" w x 2.25" h x 3" d. **\$39.99**

816 Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d. **\$39.99**

844 VHF/UHF SWR/Power Meter (left) – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/Power on 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75" w x 3" h x 1.25" d. **\$69.99**

**868 Giant SWR/Wattmeter**

Measures an awesome 6-1/2 inches diagonally across the meter scale. Easy-to-read with large high contrast numbers. Covers 1.8 to 30 MHz and indicates true Peak or Average forward and reflected power and VSWR on 20, 200, and 2000W ranges. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter. Power Saver™ circuit turns unit on only when RF power is being measured. Dim: 7" w x 5.5" h x 5" d. **\$149.99**

GrandMaster™ Series

Four models with different frequency and power ranges. Easy-to-read 3.25" w x 1.25" h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5" w x 3.125" h x 4.25" d.

870 (HF range) – 1.6 to 60 MHz.

Power ranges: 30/300/3000W + VSWR. **\$79.99**

872 (HF/VHF range) – 1.8 to 200 MHz

Power ranges: 5/20/200W + VSWR. **\$79.99**

873 (VHF/UHF range) – 125 to 525 MHz.

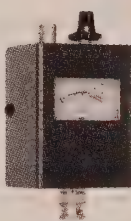
Power ranges: 5/20/200W + VSWR. **\$79.99**

874 (HF/VHF/UHF range) – 1.8 to 525 MHz.

Power ranges: 5/20/200W + VSWR. **\$109.99**

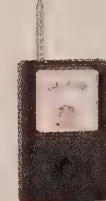
267 1.5KW Dry Dummy Load with SWR/Wattmeter

The 50Ω dry dummy load works DC to 60 MHz. Handles 100W for 10-min. or 1500W for 10-sec. The large, three-inch lighted Cross Needle meter reads SWR, forward and reflected power simultaneously. Reads PEP or average power on 300/3000W forward and 60/600W reflected power ranges, 1.8-54 MHz. Uses 12VDC for meter lamp. Dim: 4.5" w x 3.5" h x 10.5" d. **\$149.99**



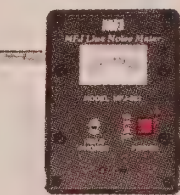
841 144 MHz HT SWR/Wattmeter
Connects directly in line between your HT and antenna. Read SWR up to 6:1 and power output up to 5W. A rear 3-position switch selects SWR, SWR set, or forward power. BNC connectors input/output.

Dim: 2" w x 2.25" h x 1.5" d. **\$49.99**

MISC. METERS

801 Super Compact Field Strength Meter (left)
Read Relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Telescopic whip included. Its compact size fits in the palm of your hand. Dim: 2.375" w x 3.625" h x 1" d. **\$29.99**

802 Bipolar Field Strength Meter (right) – Dual whips included. Dim: 2.4" w x 4" h x 1.5" d. **\$49.99**



852 Power Line Noise Meter
A sensitive AM receiver, fixed tuned in the 135 MHz range, coupled with a balun isolated 24 inch directional telescopic dipole antenna. Simply hold the unit and rotate while listening via headphones and observing the meter. A clearly defined null accurately pin-points the location of the offending noise. Accommodates a tape recorder for later playback. Uses 9V battery. Dim: 2.8" w x 4" h x 1.5" d. **\$119.99**

805 RFI Detector – Clamp the top mounted transformer over a suspect cable or wire (up to 1/4 in. dia.) to detect RFI causing common-mode currents. Great for checking mobile installations – ferreting out alternator hash, ignition pulses and micro-processor noise on feed lines and power leads. Works VLF to VHF. Uses a 9-Volt battery. Dim: 2.25" w x 4.75" h x 1" d. **\$99.99**



854 RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5" w x 5.5" h x 1.5" d; 11 oz. **\$119.99**



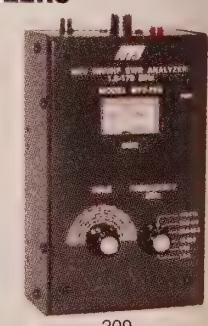
224 2M FM Signal Analyzer™
Covers 143.5-148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feed-line loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4" w x 6.75" h x 2.5" d. **\$169.99**

FREQUENCY COUNTERS

886 Pocket Frequency Counter
Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75" w x 3.25" h x 1.25" d. **\$129.99**



888 Deluxe Frequency Counter
Measures frequency and period. Covers 10 Hz to 3 GHz. with a 10-digit LCD and an ultra-sensitive synchronous detector with 16 section signal strength bargraph. High-speed 300 MHz direct counter with 0.1 Hz resolution and 4 selectable gates. Hi-Z low range; Auto-hold; LED back-light; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd pack. With battery, charger, and telescopic whip. Dim: 2.75" w x 4.25" h x 1.25" d; 9 oz. **\$189.99**

SWR ANALYZERS

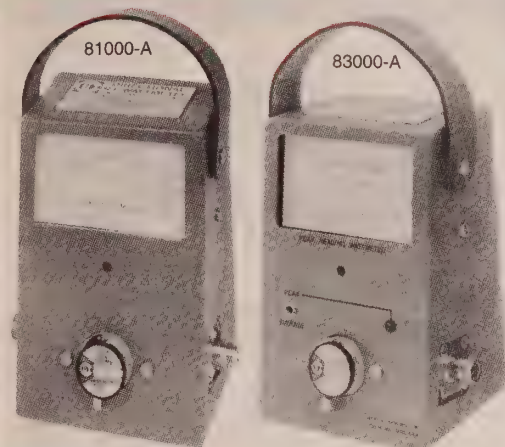
207 HF Antenna SWR Analyzer – Obtain a direct readout of antenna's SWR without formulas, etc. Range: 1.75 MHz to 30 MHz. **\$99.99**

208 VHF Antenna SWR Analyzer – Obtain direct SWR of antennas from 138-156 MHz. **\$89.99**

207/208 – Dim: 2" w x 7" h x 2" d and uses 9V Battery or 110 VAC with MFJ-1312D

209 SWR Analyzer – A wide range oscillator, a 50Ω RF bridge, and a calibrated bridge unbalance indicator. This combination allows measurement of antenna SWR from 1.8 to 170MHz on the single analog meter, and usable as a signal source. Uses (8) AA cells or 110VAC with MFJ-1312D. Dim: 4" w x 6.75" h x 2.5" d. **\$149.99**

Coaxial RF Directional Wattmeters



81000-A RF Directional Wattmeter – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

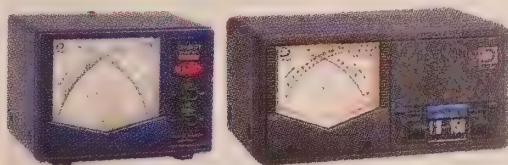
Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order). **\$289.99**

83000-A RF Peak Reading Wattmeter – Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery (included) is required for peak reading mode. **\$413.99**

See Page 6 in the Price Guide for Plug-in Elements that also work in BIRD meters



Cross Needle SWR/Power Meters



CN-801HP/V

CN-101/103M/103N

CN-101 – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6" w x 3" h x 3.9" d; 1.5 lbs. **\$99.99**

CN-103M – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP). **\$99.99**

CN-103N – CN-103M with N connectors. **\$109.99**

Professional Series

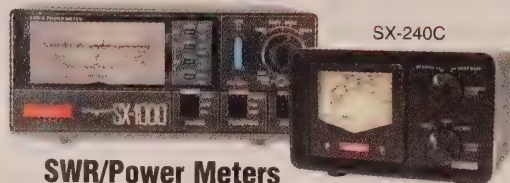
The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6" w x 4" h x 4.5" d; 2.2 lbs.

CN-801HP – 1.8-200 MHz, 20/200/2kW. **\$164.99**

CN-801V – 140-525 MHz, 20/200W. **\$159.99**

CN-801SII – 900-2500 MHz, 2/20W/200mW, type-N. **\$269.99**

DIAMOND ANTENNA



SX-240C

SWR/Power Meters

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation: For continuous, ratings vary with frequency. SO-239 connectors on all except one on SX-1100 (type-N for UHF). Dim: 6" w x 2.5" h x 4" d; 2 lbs.

SX-100 – 1.6-60 MHz, 30/300/3kW PEP. **\$134.99**

SX-200 – 1.8-200 MHz, 5/20/200W PEP. **\$94.99**

SX-400 – 140-525 MHz, 5/20/200W PEP. **\$114.99**

SX-600 – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges. **\$169.99**

SX-1100 – Quad band, 1.8-160, 430-450, 800-900 & 1240-1300 MHz, 5/20/200W PEP ranges. **\$214.99**

Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3" w x 3.4" h x 3.7" d; 9 oz.

SX-20C – 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **\$89.99**

SX-40C – 144-470 MHz (220 MHz with correction factor); 30/300W (3W minimum power)... **\$79.99**

SX-240C – 1.8-54 & 144-470 MHz (220 w/correction factor); 30/300W & 3KW (HF only). **\$319.99**



SWR-1



Low Cost SWR Meters



SWR-3

SWR-1 SWR/Field Strength – Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1–3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 2" w x 6" h x 2.9" d; 14 oz. **\$29.99**

SWR-3 SWR Meter – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 3.5" w x 2.5" h x 3" d; 6 oz. **\$19.99**

AMERITRON

AWM-30 SWR/Wattmeter

Range: 1.8 to 30 MHz. Reads true-peak or average power, forward and reflected power and SWR on an illuminated three inch Cross-Needle meter with 3000/300 Watt ranges. Remote sensor with cable. Battery saver turns unit off with no RF applied. Uses 12 VDC or 9V battery. Dim: 4.5" w x 4.5" h x 5.5" d. **\$149.99**

AWM-35 – Similar to the AWM-30 but is only 1 5/8" thick. Perfect for mobile installation. **\$159.99**

VECTRONICS SWR/POWER METERS



PM-30HF – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors.

Dim: 5.3" w x 3.5" h x 5.75" d; 1.2 lbs. **\$89.99**

PM-30UV – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors. **\$99.99**

DUMMY LOADS

A Must for every ham shack!

DIAMOND ANTENNA



DL-30A Small Dummy Load

Frequency range: DC to 500MHz. Power: 15W continuous, 100W peak. Dim: 3" long x 1.25" diameter. PL-259 male connector. **\$44.99**

DL-30N Has Type-N male connector. **\$44.99**

PALSTAR



DL-2K 2000W Dry Dummy Load

Handles 2000W for 1 minute or 400W continuously. Temperature controlled fan cooling so the fan only runs when needed. Usable 1.8–30 MHz. Internal wattmeter and analog metering. Dim: 6" w x 5" h x 12.5" d; 5 lbs. **\$279.99**



250/250X 260C



250 Versaload – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3" h x 6.6" diameter. Supplied with high-quality oil. **\$69.99**

250X – Same as above, but requires oil. **\$49.99**

21 – Gallon of oil for MFJ-250X. **\$29.99**

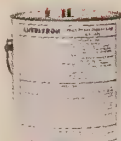
Dry Loads – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

260C HF/VHF Range – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5" w x 2.5" h x 7" d. **\$39.99**

260CN – Has type "N" connector. **\$49.99**

264 UHF, Wide Range – Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3" w x 3" h x 9" d. **\$74.99**

264N – Has type "N" connector. **\$84.99**



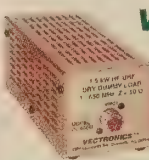
ADL-1500



ADL-2500

ADL-1500 Oil Cooled Dummy Load – Similar to MFJ-250, 1500W for five min. VSWR <1.2:1 up to 30 MHz and low SWR to 400 MHz. **\$74.99**

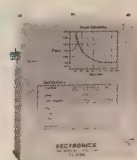
ADL-2500 High-Power Dry Load – Fan cooled heavy-duty load for up to 60 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes. **\$209.99**



DL-300M



DL-650M



DL-2500

DL-300M Dry Dummy Load – DC to 150 MHz. Power rated at 300W for 15 sec., 100W for 40 sec. VSWR <1.5:1 at 150 MHz. **\$49.99**

DL-650M Dry Dummy Load – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.5:1 at 650 MHz. **\$79.99**

DL-2500 High-Power Dry Load – Similar to Ameritron ADL-2500 above, 2500W for 1 minute up to 60 MHz, fan cooled. **\$199.99**

Prices are in
Price Guide



WIRE & CABLE

Popular Coaxial
Cable for Ham
Applications

TIMES
MICROWAVE
SYSTEMS



BELDEN
SENDING ALL THE RIGHT SIGNALS



COAX CABLE – 50Ω & 75Ω – PRICES ARE IN THE PRICE GUIDE

MODEL	TYPE	DIA (IN)	CENTER CONDUCTOR	INSULATION TYPE	SHIELD COVERAGE	JACKET TYPE	IMP Ω	VEL FACT	LOSS/100' 100 MHz
JSC WIRE & CABLE									
3030	RG-8/U	0.405	13 AWG (7/21) bare copper	Foam polyethylene	97% bare copper braid	Black vinyl	57	78%	1.8 dB
3060	Mini RG-8/U	0.240	16 AWG (19/29) bare copper	Foam polyethylene	95% bare copper braid	Black vinyl	50	78%	3.6 dB
3110	RG-58A/U	0.195	20 AWG (19/33) bare copper	Polyethylene	96% bare copper braid	Black vinyl	50	66%	4.9 dB
3500	9913 Equivalent	0.405	10 AWG solid bare copper	Semi-solid polyethylene	100% foil & 88% tin copper braid	Black vinyl	50	84%	1.4 dB
3780	RG-213/U	0.405	13 AWG (7/21) bare copper	Polyethylene	97% bare copper braid	Black vinyl non- contaminating	50	66%	2.2 dB
TIMES MICROWAVE SYSTEMS									
LMR-400	RG-8	0.405	Solid BCCA	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-DB Watertight	RG-8	0.405	Solid BCCA	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-UF Ultraflex	RG-8	0.405	10 AWG stranded bare copper	Foam polyethylene	100% alum tape plus 95% tinned copper	Black rubber	50	85%	1.498 dB
BELDEN – CLOSEOUTS – VERY LOW PRICES!!									
8216	RG-174 Subminiature	0.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50	66%	8.4 dB
8219 & 8219 WHITE	RG-58A/U	0.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC White PVC	53.5	73%	4.5 dB
8259	RG-58A/U	0.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50	66%	5.4 dB
8262	RG-58C/U non- contaminating	0.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC non- contaminating	50	66%	5.4 dB
8241	RG-59/U	0.242	23 AWG sold bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75	66%	3.4 dB
8213	RG-11/U	0.405	AWG 14 solid bare copper	Gas-injected Foam	97% bare copper braid	Black polyethylene	75	84%	1.3 dB
9248	RG-6	0.27	18 AWG solid bare copper	Gas-injected polyethylene	100% alum tape 60% tin copper	Black PVC	75	82%	2 dB

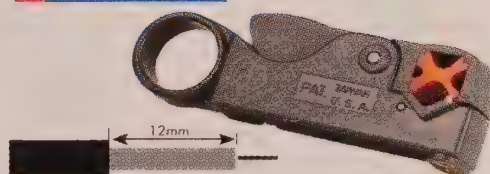
RadiWavz

RG-8X COAX JUMPER CABLES

- J8X-U1** 1.5 ft. RG-8X w/PL-259's. **\$9.99**
- J8X-U3** 3 ft. RG-8X w/PL-259's. **11.99**
- J8X-U6** 6 ft. RG-8X w/PL-259's. **14.99**
- J8X-U12** 12 ft. RG-8X w/PL-259's. **22.99**
- J8X-U25** 25 ft. RG-8X w/PL-259's. **29.99**
- J8X-U50** 50 ft. RG-8X w/PL-259's. **37.99**
- J8X-U75** 75 ft. RG-8X w/PL-259's. **49.99**
- J8X-U1X** 100 ft. RG-8X w/PL-259's. **63.99**

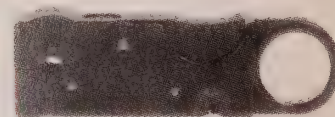
valleman inc.

COAX STRIPPER



VT-COAX Rotary Coax Cable Stripper – For
RG-6, RG-58, RG-59 & RG-62 Cable. **\$14.99**

ROTARY COAX CABLE STRIPPERS



24-7735P – for RG-58, RG-59, RG-62.. **\$22.99**
24-7736P – for RG-6, RG-59, 8281..... **22.99**

READY-MADE COAX CABLE ASSEMBLIES

CXP1318FC

Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP008C

Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP1318FN

Connector: **"N" Male both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

CXP08XC

Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

CXP213C

Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **1** (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

BRAIDED GROUND STRAP



Sizes: 1/2" wide
or 1" wide



CABLE X-PERTS, INC.
Connecting You to the World...

See Page 5 in the Price Guide for pricing.

UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.



AMPHENOL

83-1SP - PL-259 silver-plated coaxial connector

CZL

401TS - PL-259; silver plated, Teflon®, gold pin **C/O**

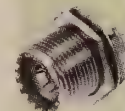


AMPHENOL

PL-259 Reducers

83-185-RFX - For RG-58

83-168-RFX - RG-59/8X



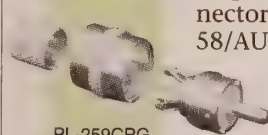
AMPHENOL

83-878 - UHF single hole bulkhead receptacle



AMPHENOL

83-1R - SO-239 UHF panel receptacle



SHAKESPEARE

PL-259CPG - PL-259; no strip, solderless male connector for RG-8X & RG-58/AU



SHAKESPEARE

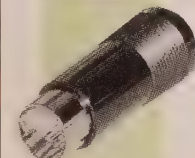
PL-258CPG - No strip, solderless splice for RG-8X & RG-58/AU

MICROPHONE AUDIO & DIN CONNECTORS



VANTO

CBC-8P Panel mount 8-pin male



KENWOOD

7-PIN DIN plug

8-PIN DIN plug

13-PIN DIN plug



PHILMORE

61-608B 8-pin female microphone plug



VANTO

CBC-4 4-pin female microphone plug

CBC-5 5-pin female microphone plug

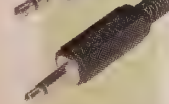
CBC-6 6-pin female microphone plug



HOUSE OF DEALS

AP-115 1/4" metal stereo plug

AP-135 3.5mm stereo mini-phone plug



DALBANI

15-0293 3.5mm mono-aural phone plug **C/O**

TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.

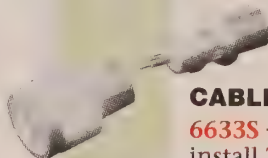


AMPHENOL

82-202-1006 -Type-N

Male connector for 8214, 9913 & 9913F

34025 - Type-N Male connector for RG-58



CABLE X-PERTS

66335 - Two-piece, EZ-install Type-N connector for 9913/8214



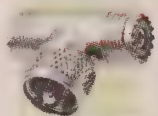
AIM

26-8011 - Type-N chassis mount receptacle

AMPHENOL

82-24 - Type-N panel mount receptacle

COAXIAL ADAPTERS



AMPHENOL

83-1T

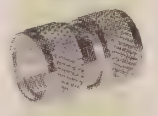
UHF T-connector



AIM

27-8140

BNC T-connector



AMPHENOL

83-877 - UHF double male



AMPHENOL

4400 - SO-239 to Type-N male



AIM

26-8015 - SO-239 to Type-N male



AMPHENOL

31-28 - BNC female to PL-259



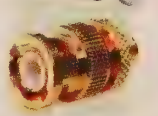
AIM

27-8120 - BNC female to PL-259



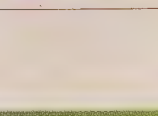
HOUSE OF DEALS

SMA-872 - SO-239 to SMA male



AIM

27-8130 - BNC double male



AIM

26-8017 - BNC male to N female



AMPHENOL

2900 - BNC male to SO-239

VANTO

VAD-1 - BNC male to SO-239

RF PARTS

RSA-3476 - BNC male to SMA female

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.



AMPHENOL

31-002

BNC Male for RG-58

31-012

BNC Male for RG-59/8X



AIM

CPAD-556M

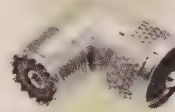
BNC Dual Female chassis mount



AMPHENOL

31-221

BNC Female chassis mount



AMPHENOL

83-1AP - UHF right angle



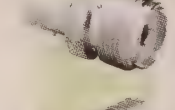
AMPHENOL

82-64 - Type-N right angle



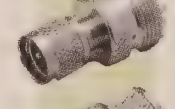
AIM

27-8150 - BNC right angle



AIM

26-8016 - BNC female to Type-N male



AIM

25-7365 - BNC female to SO-239



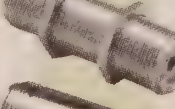
AIM

29-4140 - SO-239 to mini-PL-259



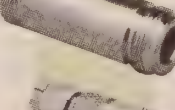
AIM

26-8014 - Type-N female to PL-259



AMPHENOL

83-1J - UHF double female connector



AIM

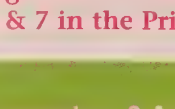
CPAD-207 - 2 in. SO-239 double female connector



CABLE X-PERTS

UG-3634 - 4 in. SO-239 double female connector

UG-3636 - 6 in. SO-239 double female connector



AIM

26-8010 - Type-N double female connector

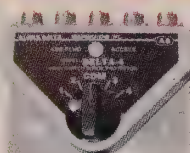
AIM

29-3855 - BNC female to SMA male

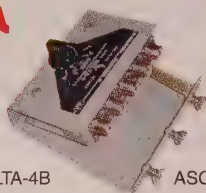
Prices for items on this page can be found under CONNECTORS on Pages 6 & 7 in the Price Guide.

COAXIAL ANTENNA SWITCHES

ALPHA DELTA



DELTA-4B



ASC-4B

Made only in the USA. A high quality design that feature a cast housing with a constant impedance micro-strip cavity for outstanding performance through UHF. Choose two & four position, SO-239 & N-Type models or the new desktop version four position with SO-239 or N-Type. See the Price Guide and Alpha Delta page for more information.

DIAMOND ANTENNA



CX-210A

CX-310A

Low Loss, High Isolation
Heavy Duty Coaxial Switches

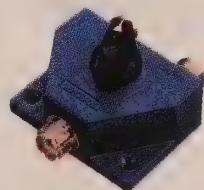
CX-210A 2-position - Frequency Range: DC to 1000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors.

Dim: 2.5"w x 1.75"h x 3.5"d; 15.5 oz. **\$49.99**

CX-210N 2-position - Same as CX-210A, except has Type-N Female connectors and different ratings. Frequency Range: DC-3000 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz); 150W (1000-3000 MHz). **\$79.99**

CX-310A 3-position - Frequency Range: DC-800 MHz. Power (CW): 1.5 KW (0-30 MHz); 1 KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 3.3"w x 1.12"h x 3.75"d; 20 oz. **\$89.99**

DAIWA

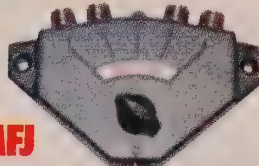


CS-201 2-Position Coaxial Switch - Heavy die-cast metal construction with Cavity Design, usable up to 600 MHz. <0.12 VSWR, <0.2dB insertion loss, 60dB isolation. Rated 2.5 KW PEP or 1KW CW. Automatically grounds the unused terminal. SO-239 connectors. **\$32.99**

CS-201GII - Same as CS-201 but with Type-N Female connectors, good to 1300 MHz. ... **\$48.99**



1702C / 1702CN



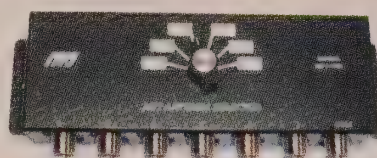
1704 / 1704N

1702C 2-Position Antenna Switch - Heavy cavity-type construction, rated to 500 MHz and 2.5KW PEP or 1KW CW. SO-239 connectors, 50-75Ω. <0.2dB loss and >50dB isolation. Switch has a center grounding position and the unused terminal is automatically grounded for surge protection. Dim: 3"w x 2"h x 2"d. **\$39.99**

1702CN - Same as 1702C, but with Type-N Female connectors, good up to 1.1 GHz. **\$44.99**

1704 4-Position Antenna Switch with Lightning Surge Protection - Heavy, cavity-type. SO-239 connectors, 50-75Ω, rated to 500 MHz and 2.5KW PEP, 1KW CW. Center ground position, replaceable gas tube protector. Dim: 6.2"w x 4.2"h x 2"d. ... **\$79.99**

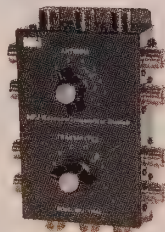
1704N - Same as 1704 but with Type-N Female connectors, good to 1.1 GHz. **\$84.99**



1701 Six position Antenna Switch - Select 1 to 6 50-75Ω antennas. Rated 2KW PEP or 1KW CW, 1.8-30 MHz. SO-239 connectors, unused terminals are grounded. Dim: 10"w x 3"h x 1.5"d. **\$69.99**

1700C Antenna and Transceiver Switch with Lightning Protection

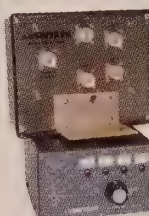
Switch up to six antennas and six radios in any combination. Rated 1.8-30 MHz, 2KW PEP or 1KW CW, 50/75Ω. **\$99.99**



1703 Rig/Antenna RF Safety Switch - Prevents your rig from transmitting into no load. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5"w x 2.5"h x 1.5"d. **\$29.99**

REMOTE ANTENNA SWITCHES

AMERITRON



RCS-4 - Use just one coaxial feedline, select up to 4 different HF antennas. The weather proof relay box can be remotely mounted outside on a tower, mast, etc. A control box located at the operating position works thru the coaxial cable without the need for a separate control line. Designed with heavy duty 10 Amp contact relays on a fiberglass circuit board rated at 2 KW and 1.8-30 MHz. Dim: (relay box) 7"w x 3"h x 5.25"d; (control box) 6"w x 2.5"h x 6"d. **\$149.99**



RCS-8V - Independently or simultaneously select up to 5 different antennas using one coaxial feedline and an 8-wire control cable. Select grounding or floating unused terminals. SO-239 connectors. Rated 5KW to 30 MHz, 1KW to 150 MHz. **\$159.99**

RCS-8VN - Same as RCS-8V but with Type-N Female coaxial connectors. **\$169.99**

RCS-10 - Select up to 8 HF antennas using one feed line and a single 4-wire control line. Long life, 16 Amp 100 MHz sealed relays will handle over 5 kW into matched loads below 30 MHz. **\$179.99**



MFJ

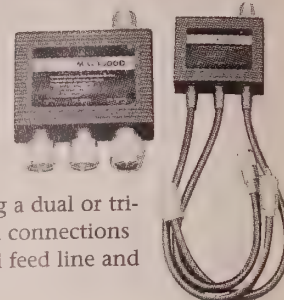


4712 - Select 2 antennas using a single coax feedline to an outside switch box. Separate control line not needed. Rated 1.8-150 MHz, 1500W and 50-75Ω. Inside control box and weatherproof outside switch box. SO-239 connectors, mounting bracket. 12VDC power supply required, not included. **\$79.99**

DUPLEXERS / TRIPLEXERS

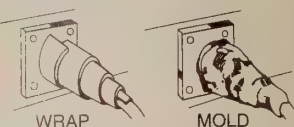
Check out

Comet on Page 6
Diamond on Page 8
in the Price Guide
for a selection of
Duplexers and
Triplexers which
will allow connecting a dual or tri-
band radio's antenna connections
to a common coaxial feed line and
multi-band antenna.



CONNECTOR PROTECTION

COAX-SEAL



UNV 104 Hand Moldable Plastic for Antenna Component Protection - The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2"w x 60"l. **\$3.99**



CoaxWrap™ Non-Adhesive Silicone Tape
A super-flexible tape that does not have any glue or adhesive; it simply bonds to itself. Can insulate up to 8000 Volts, will not melt up to 500°F, and resists UV damage and weathering. Removes easily and clean without residue.

CWR CW-10B 1"x10' Black Tape Roll. **\$6.99**
CWR CW-10R 1"x10' Red Tape Roll. .. **\$6.99**

WATER PROTECTION



STUF Dielectric Water-proof Connector Filler
High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **\$5.99**

CORROSION PROTECTION

PENETROX™

PENETROX A - A highly conductive grease recommended for use on Aluminum-to-Aluminum and Aluminum-to-Copper connectors, and on bus bars. Assures a high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Simply apply liberally to mating pieces of antenna components, tubing, etc. during assembly. Also acts as an anti-seizing lubricant to provide easy component disassembly. (4 oz. bottle). **Cannot be shipped via Air \$14.99**

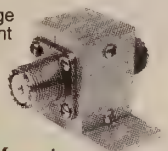
PolyPhaser[®] CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a SINGLE, low impedance grounding point within the ham shack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor). Polyphaser CU-SPGP panel (right) recommended.

BROADBAND COAXIAL PROTECTORS

Uses special hermetically-sealed gas tubes and other components to protect station equipment from surge voltages and currents that form differentially on coaxial transmission lines. Wide frequency range, low loss and DC blocked for maximum protection. Aluminum enclosure. Silver-center, TFE UHF connector or silver shell and gold pin Type-N.

Flange Mount



Bulkhead Mount



Flange Mount

IS-50UX-C0

Range: 1.5-400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector..... **\$69.99**

IS-50UX-C1

Range: 50-700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **\$69.99**

IS-50NX-C2

Range: 125-1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N... **\$69.99**

Bulkhead Mount

IS-B50LU-C0

Range: 1.5-400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector..... **\$74.99**

IS-B50LU-C1

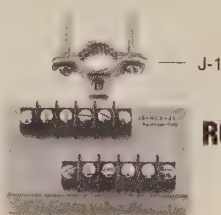
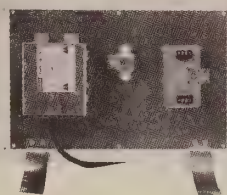
Range: 50-700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector..... **\$74.99**

IS-B50LN-C2

Range: 125-1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N... **\$74.99**

GROUNDING PANEL

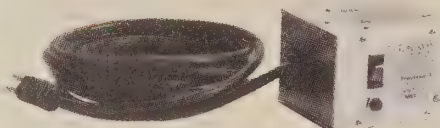
CU-SPGP - A heavy (.062) copper plate mounted on 1/2 in. plywood. Mount surge protectors and establishing the important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10 ft. x 1.5 in. copper grounding strap and two copper, 18 x 12 in. sandwich bars. Standard 16 in. on-center mounting..... **\$199.99**



ROTOR CONTROL PROTECTOR

IS-RCT - Protects rotor controllers (up to 8-wires) from the damages relating to lightning events. Each terminal has an individual gas tube inside the watertight aluminum box. Shown with optional J-1 Transition Clamp installed. **\$129.99**

J-1 Transition Clamp - For IS-RCT..... **\$14.99**



POWER LINE EXTENSION PROTECTOR

PLDO-120US20A - An in-line, multi-stage surge protector. Provides multi-strike protection, filtering and proper grounding for a 120V AC, 20 Amp circuit. Two grounded outlets, power On/Off rocker switch, and circuit breaker. All aluminum grounded enclosure. 6 ft. AC cord..... **\$199.99**

ACCESSORIES

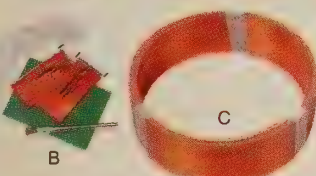
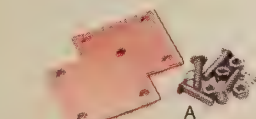
1C-112S Clamp Bond (A) - Bonds #6 - #1 AWG cable to 1-1/2" Copper Strap..... **Closeout \$33.99**

58R-112S Clamp Bond (A) - Bonds 1-1/2" copper strap to a 5/8" Ground Rod..... **Closeout \$32.99**

CCK Copper Cleaning Kit (B) - Easily clean copper and weather seal connections from moisture and corrosion. Includes surface cleaning pad, copper joint compound, brush & finger cleaning packets. **C/O \$28.99**

LOW INDUCTANCE COPPER STRAP

(C) Larger surface area and lower inductance is a big advantage over wire for RF grounding and lightning protection. #26 AWG, available in 1-1/2 or 3 in. widths and 25, 50 or 100 ft. rolls. **C/O See Price Guide**



Connecting you to the World[®]
CABLE XPERTS

FLAT BRAIDED GROUND STRAP



Flat and flexible - tinned for easy soldering. For most effective lightning protection use 1 inch-wide for connecting tower legs or antennas to ground rods or a central grounding point. Then, from the that point, use separate lengths of 1/2 inch-wide for connection to each piece of station equipment.

2332 - 1/2 in. (10 ga.), rated at 53A per ft. **89¢**

2332 100 - 100 ft. roll of above..... **\$70.99**

235 - 1 in. (7 ga.), rated at 85A per ft. **\$1.44**

235 100 - 100 ft. roll of above..... **\$124.99**

Kleinhuis ISOLATED GROUNDING BAR

1309 Isolated Ground Bar - Provides additional panel, sub or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Nickel-plated, copper clamping rail, locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5" w x 1.75" h..... **\$14.99**

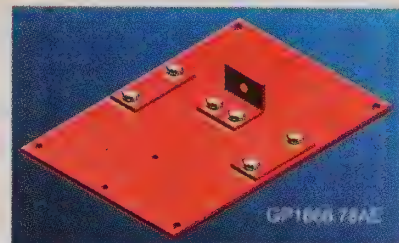


270 Lightning Surge Protector - An ultra-fast gas discharge tube safely shunts impulse current up to 5,000 Amps peak to an independent ground. Rated 400W PEP, up to 1000 MHz. **\$19.99**



GBIS18114AE 1/8" Copper Entrance Ground Bar Kit - Installs at shack entrance, making a short connection to a ground system. Holds up to five PolyPhaser lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Accepts grounding wires from 1/0 stranded to #6 solid. **\$39.99**

GEL3AE - Pkg. of 5 HD terminal lugs. **\$26.99**



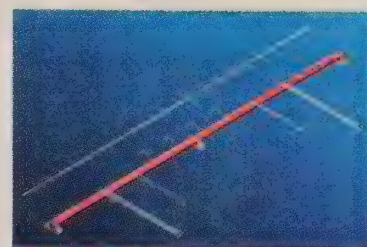
GP1868.78AE 1/8" Copper Single Point Ground Panel Kit - Provides grounding for two transceiver lines and rotor control cable. Installs at tower base or on outside wall. Fits inside a NEMA-4X style box for weather proofing. Tapped holes, sandwich plates and hardware provided... **\$76.99**



GBX976AE

NEMA 4X

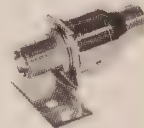
Waterproof Enclosure
Accepts GP1868.78AE
ground panel, above.
\$127.99



GBIS18148AE 1/8" Copper Station Ground Bar Kit - Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4 in. strap and lugs for added assemblies. **\$83.99**

(AES) LIGHTNING PROTECTORS

Replaceable Gas-tube protection isolates damaging surges. Bulk head or flange mounting with included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5" x 1" dia.



SP-U - UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss. **\$69.99**

SP-N - Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss. **\$69.99**

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CUSHCRAFT CLOSEOUTS

LAC-4N 200W, type-N female. . **Closeout \$29.99**

LAC-4NH 2KW, type-N female.. **Closeout \$39.99**

Replacement Gas Discharge Tubes

LC-2 200, for LAC-4/4N. **Closeout \$6.99**

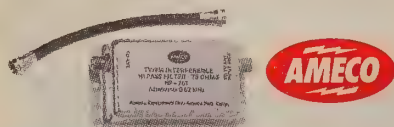
LC-2KW 2KW for LAC-4H/4NH. .. **Closeout \$9.99**

LOW-PASS & HIGH-PASS FILTERS

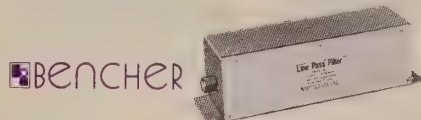
For suppressing Television interference (TVI) from nearby HF transmitters

LOW-PASS FILTERS installs in the transmission line between the transmitter and antenna or tuner. Allows signals below the filter's cutoff frequency to pass through to the antenna and attenuates signals above the cutoff frequency.

HIGH-PASS FILTERS installs at the TV set antenna terminals. Allow signals above the filter's cut-off frequency to pass through to the TV and attenuates signals below the cutoff frequency.



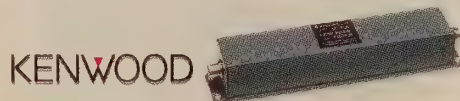
HP-75T High-Pass Filter – Stops interference to TV, FM & VCRs from amateur radio and other RF sources. For 75Ω coaxial cable systems Provides 70 dB attenuation below 50 MHz with a very sharp cut-off at 52 MHz. **\$14.99**



YA-1 52Ω Low-Pass Filter – Frequency: 1.8 to 29.7 MHz. Power: 1500W continuous, 5000W peak. Insertion loss: <0.2 dB at 29.7 MHz. Attenuation: 80 dB @ 54 MHz. SO-239 connectors. Dim: 9.2" w x 2.5" h x 2.5" d; 2 lbs... **\$95.99**



704 52Ω Low-Pass Filter – Frequency: 1.8-30 MHz. Power: full legal. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" w x 3" h x 9" d. **\$59.99**



LF-30A 52Ω Low-Pass Filter – Frequency: 1.8-30 MHz. Power: 1 KW. Loss: <0.5dB @ 30 MHz. Dim: 9.6" w x 2" h x 1.5" d. **\$69.99**

VECTRONICS



LP-30 Low 52Ω Low-Pass Filter – Covers 1.8-30 MHz, handles 1.5 KW. Up to -70dB harmonic attenuation. **\$89.99**

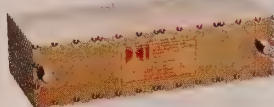
LP-2500 – Same, but 2.5KW rating. **\$129.99**

HPF-1 300Ω High-Pass Filter – Reduces signals received from transmitters operating below 30 MHz. Effective in the TV passband 52 to 550 MHz. Unique shield breaking circuit prevents antenna cable from acting like an HF antenna. Includes a 75Ω matching transformer. **\$24.99**

HPF-2 High-Pass Filter – Same as HPF-1 but a Deluxe Version that suppresses the more severe TV interference from nearby radio transmitters such as broadcast, commercial, two-way, amateur and CB operating below 30 MHz. Additionally, uses a toroid ferrite core to reject common mode interference caused by RF current on the coax shield. **\$34.99**

BANDPASS FILTERS

CLOSEOUTS – Limited Quantity!



DCI DIGITAL COMMUNICATIONS

Reduces the strength of undesired out-of-band signals (pagers, police radio, etc.) while allowing desired signals to pass through, and reducing spurious emissions on transmit. VSWR: 1.5:1; Power: 200W. Aluminum, copper and brass construction. Dim: 12" w x 3" h x 5" d.

146-4H – Range: 144-148 MHz. Loss <1 dB; Selectivity: -57dB @ 136 MHz and -43dB @ 156 MHz. SO-239 silver-teflon connectors. **\$169.99**

145-2H – Same, but 144-146 MHz. **\$169.99**

146/444DB Dual Band – Range: 144-148/438-450 MHz. Selectivity: -50dB @ 136 MHz, -40dB @ 156 MHz, -30dB @ 425 MHz, -25dB @ 465 MHz. SO-239 silver-teflon connectors. **\$239.99**

445-10C – Range: 440-450 MHz. Typical selectivity: -47dB @ 425 MHz, -50dB @ 456 MHz; Loss 1dB. Type-N silver-teflon-gold connectors. **\$189.99**

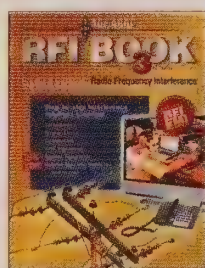
435-10C – Same, but 430-440 MHz. **\$189.99**



ALAN BROADBAND ZAP CHECKER

185 Broadband Field Strength Bug Detector – Indicates the presence of RF energy in the 3 MHz to 5 GHz range. Ideal for checking wireless installations, detection of covert devices (bugs), and detecting and locating undesirable signal sources such as interfering transmissions, RFI, noise and leakage. Uses an Internal fixed antenna and has an switch enabled silent vibrator mode for in-pocket stealth detection. Analog meter and bright LED display. Operates on (2) AA batteries. Dim: 2.1" w x 5" h x 1.25" d; 5 oz. **\$149.99**

INTERFERENCE SOLUTIONS



ARRL RFI BOOK 3rd Edition

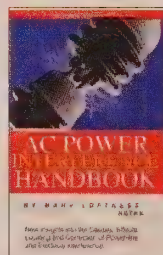
Valuable information on finding and eliminating Radio Interference to: TV, cable, satellite, DVD devices and VCRs, computers, telephones, stereos and other audio equipment. Resources for locating and dealing with power line noise.

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ARRL AC Power Interference Handbook

3rd Edition
Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power line and other electrical interference.

ARR 1103 \$34.95



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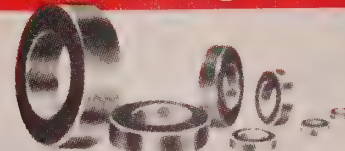
are available from all
AES locations • Call/Web

FERRITE RFI KITS

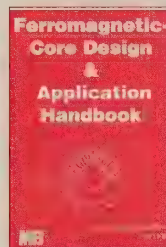


701 RFI Free Choke Kit – Solve RFI radiation or pick-up by winding an offending cable or wire around an RFI suppressing toroid. These are effective from 0.5 to 200 MHz. Split into halves for easy attachment to all types of cable; computer ribbon, coax, power cords, telephone, audio-video. Halves mount in snap-together plastic frame and multiples can be stacked for increased effect. (Pack of 4) **\$26.99**

Palomar Engineers



RFI-4 RF Interference Kit – A selection of ferrite toroids and beads to eliminate RFI from 1 to 1000 MHz. Contains: 12 beads with 0.2 inch holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2 inch holes, 4 with 3/4 inch holes and 4 split beads (toroids cut in half so you can put them over cables without removing the connectors). Two fit over RG-58 (1/4 in. hole) and two fit over RG-8 (1/2 in. hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones ... **\$35.99**



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3-500ZG-RFP Power Triode – Mechanically and electrically an exact copy of the Eimac 3-500ZG. Has high-dissipation graphite anode. **\$229.99**

12BY7A Sharp-Cutoff Pentode – Used as the driver in older Kenwood and Yaesu transceivers. **\$34.99**



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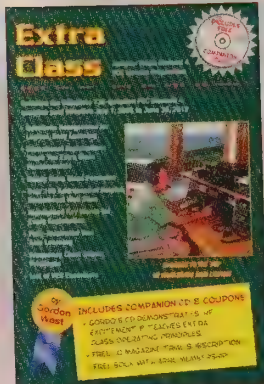
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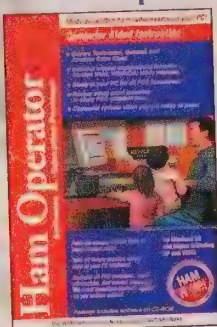
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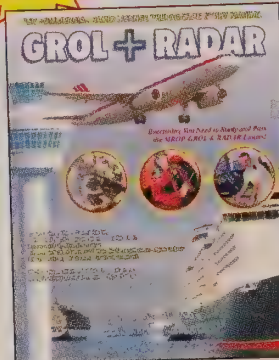
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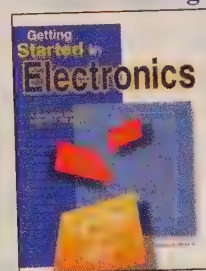
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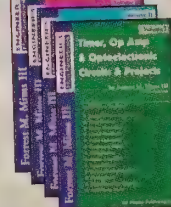
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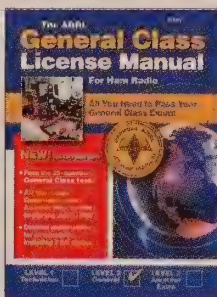
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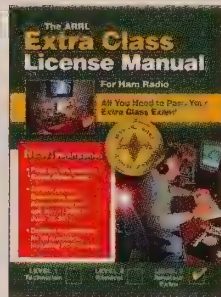
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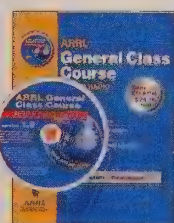
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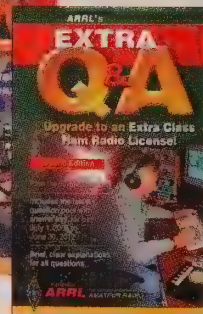
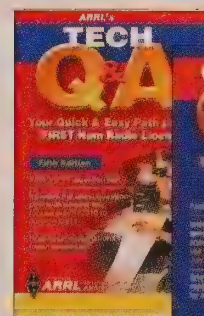
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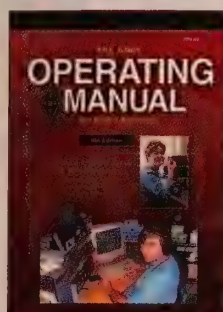
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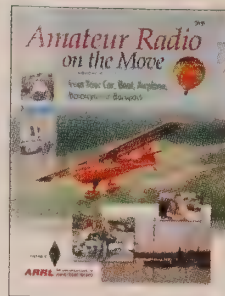
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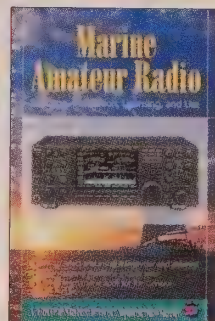
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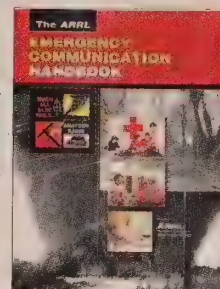


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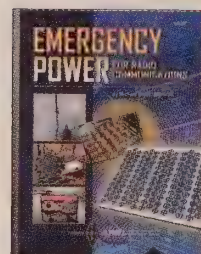
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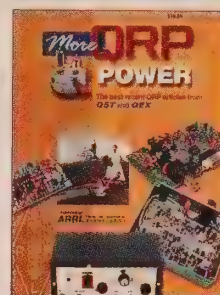
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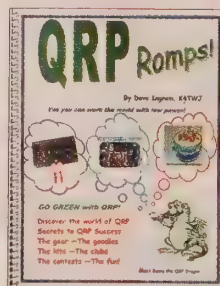
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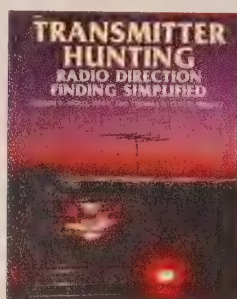


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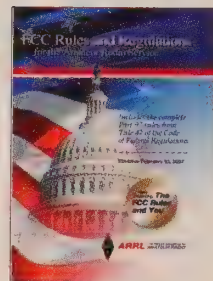
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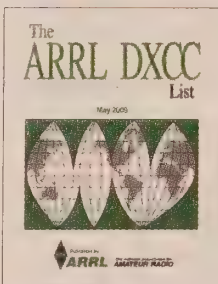
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The Official DXCC source. Record the entities you've worked and QSLed. Complete listing of DXCC rules. Contains data about each entity on the DXCC List, deleted entities and the latest additions. Also included are the prefix cross-reference and list of international callsign series. Award descriptions and information about obtaining numerous DXCC items are also featured.

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17th edition, the best of Amateur Radio tips and techniques - antennas, weekend projects, shack accessories and operating from QST articles. You'll find articles included from interesting columns, *The Doctor is In* and *Hands-On-Radio*. Learn more about a new mode, or find your next construction project!.....

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ON4UN's Low-Band DXing 4th Edition

A must for DXers, contesters and casual operators who even occasionally venture onto the low bands! Latest antennas, techniques and equipment for DXcitement on 160, 80 and 40M. John Devoldere, ON4UN, presents practical information you need to operate a highly successful station on the low bands. Includes the fully searchable book on CD-ROM.

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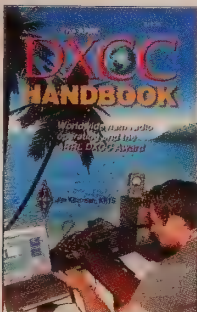


ARRL DXCC Handbook

DX in ham radio means distance. Many hams enjoy the lure of DXing - seeing how far or how many countries they can work. It's a way of determining how well our stations and we the operators can perform. DXing is a full time goal for some hams and a just-for-fun challenge for others. The pinnacle of

DXing success is the ARRL DX Century Club, or DXCC award. The purpose of this book is to inspire you to try DXing, and that you'll use it as a guide to beginning your DX journey. ...

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Remote Operating for Amateur Radio

Learn the basics of how the Internet works and the process of establishing your own Internet-controlled station. Station diagrams, software tips and more.

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A resource for Amateur Radio operators who volunteer as trained storm spotters. Includes training, equipment, safety, activation procedures and more.

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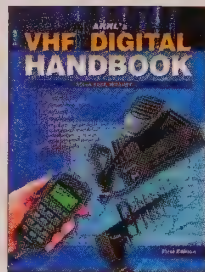
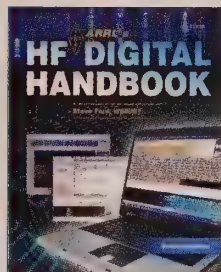


Your Guide to HF Fun

By Dave Ingram, K4TWJ
• Key Specs & Features Simplified
• Antenna & Circuit Diagrams
• Logging & Tuning
• Secrets of Setting & Contesting
• Operating Tips Galore
• Lots More! Much More!

Your Guide to HF Fun by Dave Ingram, K4TWJ
If you've recently acquired a new or upgraded license, are returning to amateur radio, or simply wish to expand your horizons, this easy-to-understand book is your hands-on guide to the world of HF communications. Chapters on The Glitz and Glamour of HF; A Quick Study of HF Transceivers; Setting Up a Safe and Effective HF Station; Selecting, Installing and Tuning HF Antennas; HF Bands Overview; Sound Great & Operate Like a Pro; DXing and Contesting; Mobiling **ING YOURGUIDEHF \$16.99**

DIGITAL MODES OPERATION



HF Digital Handbook, 4th Ed.

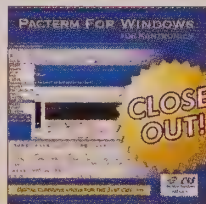
RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hell-schreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multi-mode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF, and more! **ARR 1034 \$19.95**

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Setup and operate your equipment and software, and make effective use of your digital station. Packet Radio, APRS, D-Star, digital applications in public service and emergency, more.. **ARR 1220 \$19.95**

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Software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmode for TNC interface. For Soundcard Only mode use a soundcard interface like a RIGblaster or MFJ-1275/1279. Built-in logging.



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PK-12/96/232 on CD-ROM. **CLOSEOUT \$79.99**

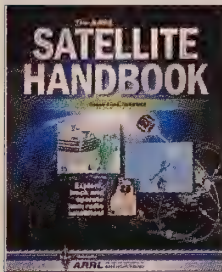
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SATELLITE OPERATION

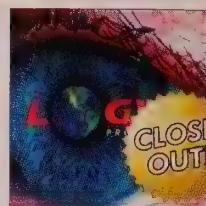


Satellite Handbook

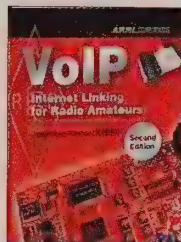
The thrill of satellite communications is within your reach with understandable descriptions, illustrations and the tools you need to participate. It's designed to give a broad introduction to the subject, while providing the practical fundamentals you need to explore, track and operate ham radio satellites on your own. Topics: a brief history of Amateur Radio satellites; Orbits and Tracking; Your satellite ground station; Satellite operating; Satellite projects, plus understanding orbits and subsystems. **ARR 9857 \$24.95**

LOGSAT PRO Satellite Tracking Software, V5.2

Track 100s of satellites in dozens of windows. Multi-tasking; Unlimited open satellite windows; Voice alarms when satellite window becomes visible; 5 map projections; 3D antenna radiation diagrams can be displayed; Online help; The Satellite Encyclopedia. Requires Windows® OS, 286 or better processor, 4MB RAM, 15MB disk space, sound card. **LOG LOGSATPRO C/O \$49.99**



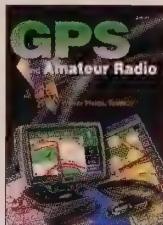
INTERNET LINKING



VoIP: Internet Linking for Radio Amateurs, 2nd Edition by Jonathan Taylor, K1RFD - A complete guide to several of the most widely-used VoIP systems used by hams with particular attention to EchoLink and the Internet Radio Linking Project (IRLP). Designed for beginners who need information on how to get started, setup, and use these systems. For the more advanced, it provides plenty of technical "meat" for those who want to dig deeper into VoIP applications and discover how they actually work.

Contents: Connecting the World, Using a VoIP Link, Conference Servers, Reflectors and Nets, Other Linking Systems, Setting Up Your Own Node, Digital Audio and the Internet. **ARR 1431 \$21.95**

GPS



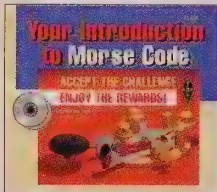
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Explore GPS: its history, how it works, and navigating with a GPS receiver. Also learn how Amateur Radio operators have made use of GPS technology for direction finding and public service

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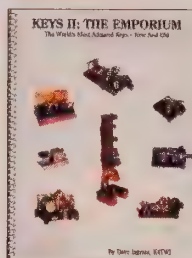
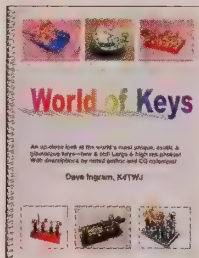
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Your Introduction to Morse Code



Don't just learn the code - master it! This set includes two audio CDS with nearly 2-1/2 hours of practice. Learn the Morse Code at 5 words-per-minute.

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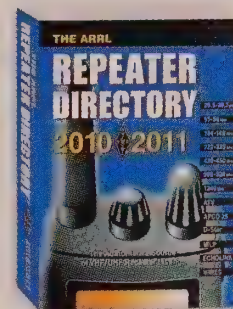
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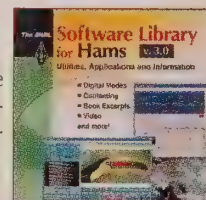


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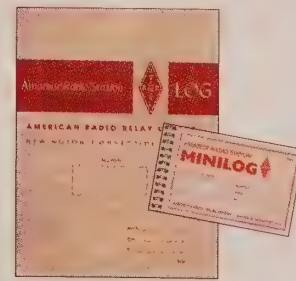
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Contains software for a wide variety of ham radio applications and a selection of articles from QST magazines.

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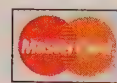


LOG BOOKS

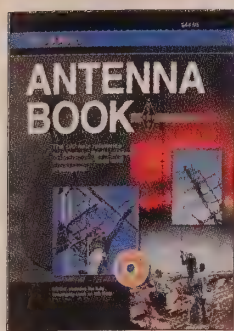


LOGBOOK - Full sized (8.5 x 11"), spiral bound. Has 52 log pages with room for 25 contacts per page (1,300 total log entries). This universal log suits all amateur radio operations **ARR 1250 \$7.95**

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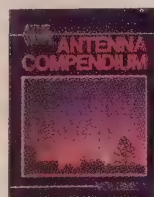


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ARRL Antenna Book

21st Edition - Information you need to design your own antenna system. THE source of current antenna theory and a wealth of practical construction projects. Use this book to discover even the most basic antenna designs (wire and loop antennas, verticals, and Yagis) and for advanced antenna theory and applications. Includes CD-ROM..... **ARR 9876 \$44.95**



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Contains 38 articles covering a wide range of topics. There are simple, practical antenna projects, and theoretical treatments of complex arrays. Seven articles devoted to 80 and 160 meters, including large arrays. Articles on mobile work and portable or temporary antennas..... **ARR 4912 \$20.00**

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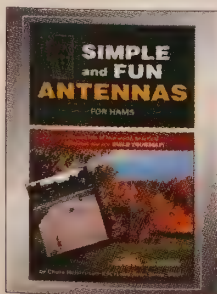
Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes antenna modeling software..... **ARR 5625 \$20.00**

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More articles on antennas, transmission lines and propagation. More projects **ARR 7431 \$22.95**

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Articles covering antenna related topics including measurements and computations, mobile and multibands, practical tips, propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. **ARR 8608 \$24.95**



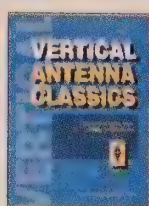
Simple & Fun Ham Antennas

Lots and lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 useful projects. **ARR 8624 \$22.95**



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Basic concepts, practical designs and details of easy-to-build antennas. Includes: Dipoles, Transmission Lines, Two Element Arrays, Wideband, Multibanders, Loops, Reflector Antennas, HF and VHF, Microwave, Vehicles, Measurements & More.. **ARR 9994 \$29.95**



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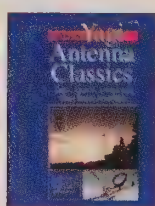
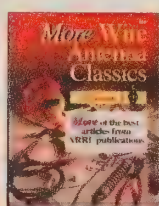
Ground planes, J-poles, mobiles, Yagis. Build a better antenna for an HT. Construct a 2 meter Yagi that rivals commercials. Includes projects from the 1980 to 2003 issues of QST **ARR 9078 \$14.95**

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Articles from QST and the Antenna Compendium series. Tips and techniques from QST's "Hints & Kinks." Includes vertical antenna theory and modeling, HF/VHF/UHF, directional arrays, radials, grounds and more..... **ARR 5218 \$12.00**

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Designs for a variety of operating preferences, ground systems, portable antennas, phased vertical arrays and more..... **ARR 9795 \$17.95**



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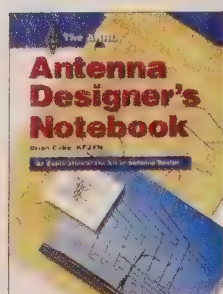
Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinears, rhombics, wire beams, vertically polarized and receive antennas are all featured, even tree-mounted antennas..... **ARR 7075 \$14.00**

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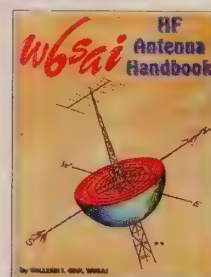
Yagi Antenna Classics

Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multi-banders, HF, VHF and UHF beams, computer modeling, masts..... **ARR 8187 \$17.95**



Antenna Designer's Notebook

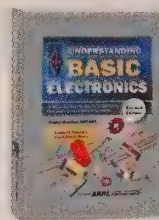
Provides a thorough description of new components of antennas - such as the FZ element and the C-pole - and practical antennas made from them. Explore the details of an improved tunable HF loop, theoretical analysis of linear loading and ground losses, and practical designs for beams and omnidirectional antennas. Includes CD-ROM with EZNEC models for all antennas in the book plus a bonus presentation on Boxkite Yagi antennas..... **ARR 1479 \$34.95**



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Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and vertical antennas..... **\$19.99**
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Understanding Basic Electronics, 2nd Edition

A step-by-step Guide to Electricity, Electronics and Simple Circuits. Your gateway into the exciting world of electricity and electronics. Written in a easy-to-understand style that beginners and non technical readers will enjoy... **ARR 0823 \$32.95**

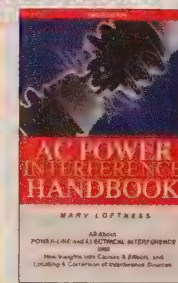
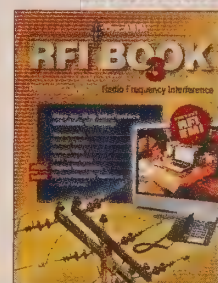
Basic Radio

A comprehensive introduction to radio - what it does, and how it does it. The key building blocks of radio: receivers, transmitters, antennas, build-it-yourself projects to turn theory into practice and helping reinforce important subjects..... **ARR 9558 \$29.95**

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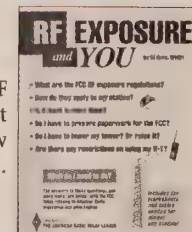
Advice on every type of radio frequency interference: automotive, television, computers, DVD players, audio equipment, telephones, power line noise, cable television interference, and solutions for other electrical devices..... **ARR 0915 \$29.95**

ARRL AC Power Interference Handbook (3rd Edition) Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power-line and electrical interference. 18 chapters..... **ARR 1103 \$34.95**

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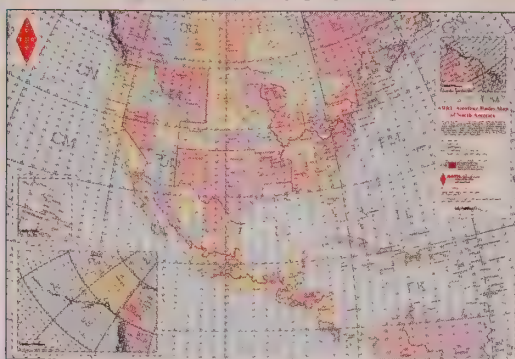


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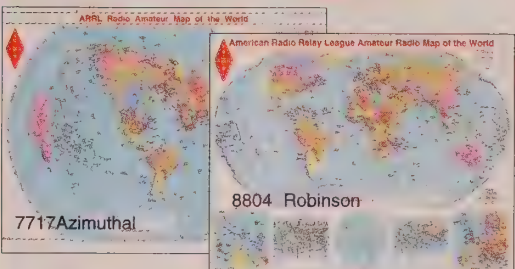
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MAPS / ATLAS / GRIDS

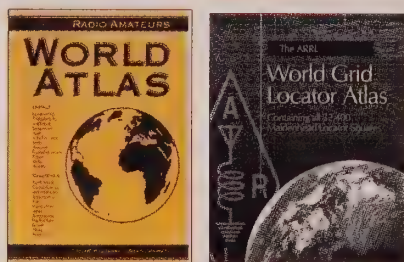


ARRL Amateur Radio Map of North America
This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated **ARR 8977 \$15.00**



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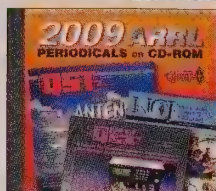
Buckmaster HamCall CD

Over 1.5 million listings by name, address, county, country & license class. License issue date, expiration, previous call and class, area code, e-mail, URL, time zone, latitude/longitude, grid square, beam heading and long/short path distance. Extensive international listings; Label printing; 4,000+ photos and QSL cards; All WIN compatible; Interfaces with logging programs.. **BUC HAMCALL \$49.99**

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No more hunting through flea markets, calling multiple dealers, or photo copying. You can get most instruction and maintenance manuals directly from the manufacturers' websites.

HISTORY / ARCHIVES



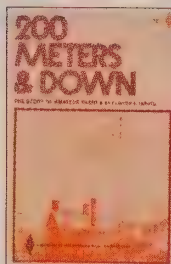
ARRL Periodicals on CD

Complete text and illustrations for all articles in QST, QEX and NCJ. Includes search engine, book-marking, printing, software project source code, PC board etching patterns and clipboard. Info presented by title, name, call sign, keyword. Individual Windows™ CDs by year: 1995-2007; **\$19.95 ea.** • 2008-2009; **\$24.95 ea.**

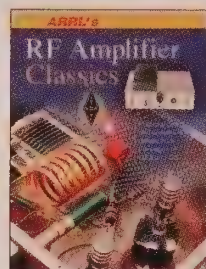
ARR 5579 (1995) • **6109** (1996) • **6729** (1997) • **7377** (1998) • **7881** (1999) • **8209** (2000) • **8632** (2001) • **8802** (2002) • **9124** (2003) • **9396** (2004) • **9574** (2005) • **9841** (2006) • **1204** (2007) • **9406** (2008) • **1486** (2009)



Vintage Radio - A collection of QST articles (1977-2003) describing vintage equipment and interesting points Amateur Radio history that will evoke a sense of nostalgia. Includes classic QST advertisements from the 1920s thru the '70s.. **ARR 9183 \$19.95**



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RF Amplifier Classics

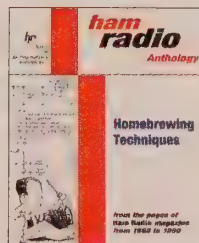
Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for classic tube and solid-state amplifiers from 5W to 1.5kW.

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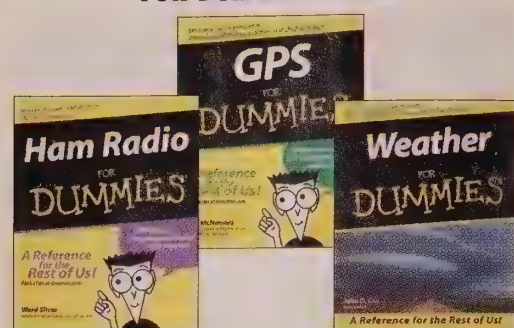
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3502 Solid State QRP Projects.....	12.95
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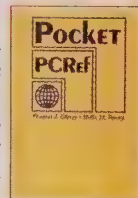
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A pocket-sized reference containing 768 pages packed full of tables, maps, formulas, constants and conversions. A concise all-purpose guide covering chemistry, physics, electrical, electronic formulas, math, metric conversion, mechanical data, hardware, mapping, worldwide telephone area codes, tools, currency, metals, weights, perpetual calendar, science and more. **SEQ POCKETREF \$12.99**



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Cobra CB RADIOS



19DX IV Compact 40 channel Mobile CB Radio
New compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/Rf meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket.
Dim: 4.5" w x 1.75" h x 7.25" d; 2.1 lbs. **\$49.99**



148GTL 40 channel AM/SSB CB Radio - Full featured, 4 full Watts (AM) and 12W (SSB) RF power. Dual conversion AM receive; Adjustable Dynamike; Illuminated S/Rf/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator; Digital LED readout; PA.
Dim: 7.8" w x 2.3" h x 9.2" d; 5 lbs. **\$149.99**



25LTD AM Mobile CB Radio - 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 6.3" w x 2.2" h x 8.6" d; 4 lbs. **\$89.99**

29LTD AM Mobile CB Radio - Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/Rf/SWR meter.
Dim: 7.25" w x 2.2" h x 8.6" d; 4 lbs. **\$99.99**



HH-ROAD TRIP 40 Channel CB Handheld - Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. SoundTracker® system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" alkaline or NiCads or from vehicle battery with the included DC cord and plug. Includes magnet mount mobile antenna.
Dim: 2" w x 6.75" h x 1.75" d. **\$89.99**

75WX ST Compact/Remote CB Radio - 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 2.7" w x 4.2" h x 1.8" d; 1.85 lbs. **\$99.99**



MICROPHONE



HGM-77 Noise Cancelling Microphone - Designed for CB users who want to step up from their stock microphone. Features 9' High-Flex™ cord, Wire mesh grille, Heavy-duty ABS shell and 4-pin connector. **\$29.99**

Uniden CB RADIOS



PC-68XL 40-Channel CB Radio - Front microphone jack; Backlit controls; S/Rf meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6" w x 2.6" h x 8.9" d; 3 lbs. **\$74.99**

PC-68LTW - Same basic features as the PC68XL but with NOAA weather and alert. **\$79.99**



PC-78XL 40 Channel AM Mobile - PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED. Dim: 7.25" w x 2.38" h x 8.63" d; 4 lbs. **\$94.99**

PC-78LTW - Same basic features as the PC78XL but with NOAA weather and alert. **\$99.99**



PC-78 ELITE 40-Channel CB with Ergonomic Pistol Grip Microphone - Combines CB and a 7 channel Weather Radio with alert. Enhanced night vision display; Instant Channel 9; S/Rf/SWR meter; RF and microphone gain; Delta tune. Switches for: S/Rf/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control.
Dim: 7.6" w x 2.6" h x 8.9" d; 4.18 lbs. **\$119.99**

PC-68 ELITE 40-Channel CB - Same looks and features as PC-78 Elite but no Delta tune and SWR. Dim: 6.2" w x 2.1" h x 5.4" d; 3.68 lbs. **\$99.99**

PRO-538W

PRO-510XL
PRO-520XL



PRO-510XL Compact 40 Channel AM Mobile
Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/Rf LED meter. Dim: 4.5" w x 1.4" h x 7.5" d; 3 lbs. **\$39.99**

PRO-520XL Compact 40 Channel AM Mobile
Looks like 510XL. Instant channel 9 access; 4-segment S/Rf meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter.
Dim: 4.5" w x 1.38" h x 6.8" d; 1.6 lbs. **\$54.99**

PRO-538W 40 Channel AM Mobile - Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8" w x 2" h x 8.3" d; 2.6 lbs. **\$59.99**

RECOMMENDED CB ANTENNAS

COBRA
HGA-1000 - Base loaded magnet mount mobile antenna with coax and connector. **\$29.99**

HUSTLER
HQT - A 55 in. top loaded whip with Mirror Mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil. **\$33.99**

HQ-27M - A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil. **\$42.99**

1C-100 - 44 in. base loaded magnet mount white antenna (1C-100B is black). each **\$25.99**

1C-11 - 42 in. base loaded trunk mount white antenna (1C-11B is black). each **\$19.99**

LARSEN
NMO-27C - Base loaded mobile, less mt. **\$45.99**

NMO-27B - Same but black. **\$49.99**

NMO-TLP - Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259. **\$34.99**

NMO-MMR - Magnet mount for NMO-27C. Comes w/12 ft. coax & PL-259. **\$34.99**

MIDLAND

18-258 - Through Window Mount Mobile CB Antenna. Overall length: 25-1/4 in. Includes coax & PL-259 connector. **\$19.99**

SOLARCON

A-99 - Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in. **\$89.99**

GPX-1 - Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation. .. **\$64.99**

K40

K30 - 35" whip base loaded 4" magnet mount with 15' RG-58 coax & PL-259 connector. **\$29.99**

K40 - 57.25" whip base loaded trunk or roof mount w/18' RG-58 coax & PL-259 conn. **\$69.99**

M40 - Magnet mount for K40 antenna. **\$24.99**

W40 - Black weather cap for K40 ant. **\$2.99**

Super-Flex Whips can bend up to 180 degrees and handle 1500W AM. Fits all 3/8" x 24 thread mounts. 5-Year Limited Warranty!

SF-400 - 4' Black fiberglass whip. **\$23.99**

SF-400W - 4' White fiberglass whip. **\$23.99**

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MARINE RADIOS

ATLANTIS-250 Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability. Dim: 5.8"h x 2.7"w x 1.68"d; 15.2 oz. **\$89.99**

VOYAGER Ultra Compact VHF Handheld Marine Radio All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8. **\$119.99**



SOLARA-DSC 25W VHF Marine Radio – Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector. Dim: 2.5"h x 6.4"w x 6.7"d; 2 lbs. **\$89.99**

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MARINE ANTENNAS

4187 Ratchet Mount – Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads. **\$39.99**

396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna – A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount. **\$69.99**

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna – Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **\$69.99**

5206-C End-fed Antenna, Matching Stub – Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount. **\$59.99**

5202 Collinear-phased 5/8 Wave Elements – A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount. **\$109.99**

5215 Squatty Body™ VHF Marine Antenna – A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount. **\$49.99**



ICOM

MARINE RADIO

IC-M72 Marine VHF Handheld – More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. AquaQuake draining function emits a vibrating sound and clears water away from the speaker grill. Large capacity 2000mAh Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 4.90"h x 2.06"w x 1.8"d; 9.9 oz. **\$199.99**

Available Accessories:
CP17L Right angle cigarette cable for charger, HS94 Ear-piece headset, MB86 Swivel belt clip, OPC478 PC RS232 cable, OPC515L Right angle DC cable for charger, VS1 Vox-PTT for HS94

AIRCRAFT RADIO

A-24 NAV/COM Handheld Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. You can also input your intended radial to/from the VOR station and show the course deviation on the display. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz; Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA weather channels. Side tone function allows you to hear your own voice via an external aviation headset. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes long life 1650mAh battery pack. Dim: 5.1"h x 2.1"w x 1.4"d; 15.2 oz. **\$349.99**

Available Accessories:
AD101 Adapter cup for desk charger, BC144N Rapid desk charger, BP208N 6 cell AA Battery case, BP209N 7.2V 1100mAh battery, BP210N 7.2V 1650mAh battery, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Radio-radio clone cable, OPC478 PC RS232 cable

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PSR-700 EZ Scan-SD Analog Trunking Scanner

Introducing the new age of scanners! Uses a 2GB SD memory card that is pre-loaded with the entire USA Radio Reference database. So you don't have to program it to use it! Has the ability to track Motorola type I/II systems, LTR and EDACS trunking systems with the information on that 2GB SD Card. Covers 25-54, 108-174, 216-512, 764-824, 849-868, 894-960 & 1240-1300 MHz. Comes with a BNC antenna, PC USB cable, 2GB SD memory card, User's Guide and CD-ROM software that allows you to upgrade the firmware, update the Radio Reference database, format or prepare an SD card and manipulate objects and playlists (scan lists). Other features include CTCSS & DCS subaudible decoder; SAME Weather Alerts; Spectrum Sweeper. Operates on 2 "AA" alkaline or Ni-MH batteries (not included). Dim: 2.4" w x 5.5" h x 1.1" d; 6.7 oz..... **\$199.99**



GRE

ANALOG & DIGITAL SCANNERS



PSR-100

PSR-300

PSR-500

PSR-100 Handheld Scanner - Frequency coverage 29-54, 108-174 & 380-512 MHz. Five pre-programmed bands: Marine, Fire/Police, Air, Amateur and Weather. Priority channel. 200 memories in 10 banks, SAME Weather alert with 10 FIPS area code memories and Skywarn function. Key lock for safety. Ten-digit channel and frequency display with all function indicators. LCD backlighting. PC programmable with cloning capability. External 9V DC power charge jacks, 3.5mm stereo earphone and cloning jacks. Includes flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.48" w x 5.7" h x 1.57" d; 7.7 oz..... **\$99.99**

PSR-200 Base Scanner - Affordable, with innovative features. Frequency coverage 29-54, 108-174, & 380-512 MHz. 200 memories and five pre-programmed bands for Marine, Fire/Police, Air, Amateur and Weather. Priority channel. Weather capability features SAME technology with 10 FIPS area memories and a Skywarn function. Scanning at 45 channel per second and sweeps at 80 steps per second. Up or Down search. Backlit LCD. Supports programming by a PC and unit-to-unit cloning. Rear panel 3.5 mm earphone jack. Includes a screw-in telescopic antenna and AC adapter. Dim: 8.27" w x 6.89" h x 2.36" d; 1.54 lbs. **\$99.99**

PSR-300 Handheld Triple Trunking Scanner - Latest technology includes coverage of the new 700 MHz band and upgradeable CPU firmware to support future band changes. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Frequency steps include: 3.125, 5, 6.25, 7.5, 8.33, 10, 12.5 and 25 kHz. Has 1000 memory channels in 10 banks for trunking bank and channel combined conventional mode memory provides multi-tracking of Motorola (type I, II and hybrid analog system), EDACS wide and LTR. Includes CTCSS and DCS sub-audible encoded squelch modes. A spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches are available for Marine, Fire/Police, Air, Amateur and Weather. Weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Includes a flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires four AA cells (not supplied). Dim: 2.56" w x 5.7" h x 1.65" d; 8.5 oz. **C/O \$199.99**

PSR-400 Triple Trunking Desktop/Mobile Scanner - Loaded with features and wide coverage including the new 700 MHz band. Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Multiple tuning steps. Has upgradeable CPU firmware in support of future rebanding. Ten banks and 1000 channel memories for trunking bank and channel combined conventional mode memory. Multi-tracking of Motorola (Type I, II and hybrid analog systems), EDACS wide and LTR. CTCSS and DCS sub-audible encoded squelch. Spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches for Marine, Fire/Police, Air, Amateur and Weather. The weather alert capability features SAME receiving with 10 FIPS area memories plus a Skywarn function. Scans at 60 channel per second and sweeps at 75 steps per second. Signal strength indicator on the LCD. Backlit keypad. Includes a BNC telescopic antenna, mounting bracket, AC adapter and DC power cord. Dim: 7.28" w x 2.16" h x 5.31" d; 1.74 lbs. **\$199.99**

PSR-500 Handheld Analog/Digital Trunking Scanner - Uses an intuitive Object Oriented User Interface for ease of use. Frequency Coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Spectrum sweeper function seeks out nearby RF sources. Supports Motorola Analog, EDACS, LTR and Digital APCO (9600 bps) trunking systems. CTCSS and DCS subaudible squelch coding. Weather alert function with SAME technology and SKYWARN features. The 1800 memories may be structured to preferred bank sizes. Save complete radio configurations within the radio for recall into main memory as needed. Supports Talkgroup and individual call monitoring. With P25 digital systems, Automatic Adaptive Digital Tracking adapts the digital decoder to the modulation format, then analyzes the signal and adjusts any subtle changes caused by multipath or fading without manual intervention. The Large backlit LCD displays four lines by 16 characters. Backlit keypad and programmable, multi-colored super bright LED; program the color for the channel received. Operates from four AA cells (not included) or external 9V DC. Includes BNC antenna, USB PC cable, belt clip and two alkaline and rechargeable battery cases. Dim: 2.56" w x 5.71" h x 1.65" d; 8.5 oz.... **\$399.99**

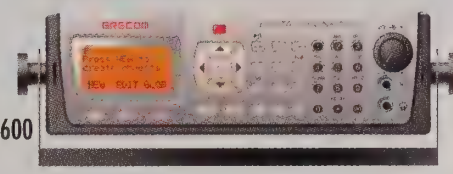
PSR-600 Advanced Trunking Scanner - Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Includes 1800 memories that may be dynamically structured to bank sizes you prefer. The large backlit LCD displays four lines by 16 characters. Backlit keys. Supported trunking systems include Motorola Analog, EDACS, LETS and Digital APCO (9600 bps). Weather alert function, SAME technology and Skywarn features. A spectrum sweeper function seeks out nearby RF sources. Operates from 13.8 VDC Includes telescopic BNC antenna, USB PC Interface Cable, AC adapter, DC power cable and DIN-E kit. Dim: 7.4" w x 2.4" h x 5.6" d; 2.7 lbs. **\$399.99**



PSR-200



PSR-400



PSR-600

ALINCO RECEIVER CLOSEOUT



DJ-X3T Wideband Receiver Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. Large, illuminated LCD display. 20 pairs of programmed-scan memory channels, 8 priority channels and 100 search-pass memory channels that skips scan even in VFO/Programmed-scan mode. 700 memory channels in 10 banks. 11 different steps plus an automatic-step mode. An SMA rubber-duck, earphone, and internal ferrite-bar antennas (AM/SW) improve reception capability and operational flexibility. Bug detector finds hidden transmitters. Uses 3 "AA" Batteries. Dim: 2.2" w x 4" h x 0.9" d; 5 oz.... **C/O \$139.99**

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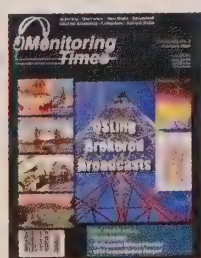
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uniden Bearcat Compact Handheld Scanners



BC-72XLT Compact Handheld Scanner (Great for NASCAR!) – 100 Channels / 10 Banks; Covers the bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174 & 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; Sport Scanner; Public Safety Scanner; 2 AA battery operation: Alkaline or Rechargeable (batteries can be charged while in the scanner). Dim: 2.75" w x 4.5" h x 1.75" d; 6 oz. **\$99.99**

BC-95XLT Compact Handheld Scanner with 800 MHz Coverage (Great for NASCAR!) – 200 Channels / 10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 & 806-956 MHz (excluding Cellular); 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; Sport Scanner; Public Safety Scanner; 2 AA battery operation: Alkaline or Rechargeable (batteries can be charged while in the scanner); PC Programmable (USB or Serial Cable sold separately & Software is available at www.uniden.com). Dim: 2.75" w x 4.5" h x 1.25" d; 6 oz. ... **\$119.99**

BC-346XT TrunkTracker III Compact Handheld Scanner – Frequency Coverage 25-225, 400-512, 806-960 & 1240-1300 MHz (excluding Cellular); TrunkTracker III (EDACES, Motorola & E.F. Johnson); 9,000 Dynamically Allocated Channels; Location-Based Scanning*; Location Alerts*; Crows-Flight Navigation*; Close Call™ RF Capture Technology instantly tunes nearby signals; Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; Band Scope graphically finds radio activity; Temporary Lockout; Search with Scan; DCS/CTCSS Rapid Decode instantly detects and displays the Subaudible Tone so you can quickly determine the System Settings; S.A.M.E. Weather Alert: Specific Area Message Encoding - During a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; Public Safety Scanner; System / Channel Number Tagging provides rapid access to a specific system or channel; Individual Channel Volume Offset, Priority ID Scan on trucked systems; PC Programming/Control capable*. Dim: 2.4" w x 5.3" h x 1.2" d; 6 oz. **\$219.99**

BCD-396XT TrunkTracker IV APCO 25 Compact Handheld Digital Scanner – Frequency Coverage 25-225, 400-512, 806-960 & 1240-1300 MHz (excluding Cellular); TrunkTracker IV (Motorola APCO 25 Digital, EDACES, Motorola & E.F. Johnson); 25,000 Dynamically Allocated Channels; Location-Based Scanning*; Location Alerts*, Crows-Flight Navigation*; Close Call™ RF Capture Technology instantly tunes signals from nearby transmitters; Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; Band Scope graphically finds radio activity; Audio AGC; Automatic Digital Threshold Adjustment; Temporary Lockout; Search with Scan; DCS/CTCSS Rapid Decode instantly detects and displays the Subaudible Tone so you can quickly determine the System Settings; S.A.M.E. Weather Alert: Specific Area Message Encoding - During a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; Public Safety Scanner; System / Channel Number Tagging provides rapid access to a specific system or channel; Individual Channel Volume Offset, Priority ID Scan on trucked systems; PC Programming/Control capable*. Dim: 2.4" w x 5.35" h x 1.22" d; 6 oz. **\$519.99**

*Compatible GPS Required (not included)

*Comes with a RS-232 PC Serial cable. For USB the Uniden USB-1 cable is sold separately from Uniden.com.

Some software is available for free and some for purchase on the internet.

uniden SCANNERS



HOME PATROL Easy To Use Pre-Programmed Scanner – Revolutionary! Simply enter a Zip Code via the full-color 3-1/2 in. LCD touch screen, press <ENTER> and instantly start hearing local scanner communications (conventional and trucked, analog and digital). If you have a compatible GPS, you can plug it in to the HomePatrol and it will update the frequencies for the area you are travelling in. The 2GB micro SD card will store your favorite frequencies and record intercepts. Coverage: 25-54, 108-512 and 758-960 MHz (less cellular). Modes: AM, FM and FM wide. Systems: TrunkTracking EDACS (N/W), LTR, Motorola (analog/mixed/digital) and APCO P25. Includes: AC adapter, rechargeable AA cells, and USB cable. Learn more at www.HomePatrol.com

Dim: 5.5" w x 3.25" h x 1.3" d; 15.9 oz. **\$519.99**

BC-340CRS Clock Radio Scanner with 100 Channels in 10 Banks – Covers: 0.53-1.7, 25-54, 88-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Broadcast; Alarm Clock with Snooze; Public Safety Scanner. Comes with telescopic and, AM loop antennas and AC adapter.

Dim: 8.2" w x 3.1" h x 5.8" d; 1.4 lbs. **\$99.99**

BC-370CRS Atomic Clock Radio Scanner with 300 Channels in 10 Banks – Covers: 0.53-1.7, 25-54, 88-174, 225-380, 406-512, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; AM/FM Broadcast; Alarm Clock w/Snooze; Public Safety Scanner. Comes with telescopic antenna, AM loop and AC adapter.

Dim: 8.2" w x 3.1" h x 5.8" d; 1.4 lbs. **\$139.99**

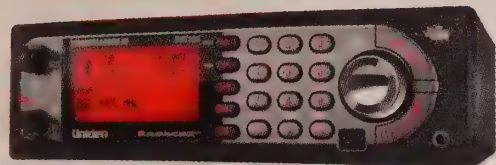


BC-355C 800 MHz Base or Mobile Scanner Coverage: 25-54, 108-174, 406-512 & 806-956 MHz (cell blocked). 6 Preprogrammed service banks; 13 preset search bands; 300 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; Luminescent backlit LCD screen; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Comes with Telescoping antenna, Fixable mobile antenna, AC adapter, Cigarette lighter adapter & DC power cord. Dim: 5.2" w x 1.6" h x 5.75" d; 1.4 lbs. **\$109.99**



BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state (except HI); 100 cps scanning with lockouts; Priority scan; BearTracker™ Warning System; Backlit LCD. Comes with AC adapter, DC power cord, cigarette lighter adapter, telescopic antenna, window mount antenna and mobile bracket. Dim: 7" w x 2.5" h x 6" d; 4.9 lbs. **\$179.99**

uniden SCANNERS



BCT-15X BearTracker™ Mobile Trunking Scanner with GPS Support (GPS not included) The GPS feature, when enabled, provides automatic system selection, permitting the scanner to turn system reception on or off depending on the user's location, and allows customizing the scanner display to show location-based information. In addition, the GPS feature will send alerts at areas of special interest, such as dangerous intersections, school zones, or points of interest. The BCT15X also offers Uniden's unique BearTracker system which alerts mobile users to public safety activity in their area as well as Close Call® RF Capture Technology that automatically locks onto nearby signals with no programming necessary. This model supports TrunkTracker III systems: Motorola Type I/II/III Hybrid, EDACS and LTR analog trunk systems. Covers: 25-512, 758-824, 849-869, 894-960, 1240-1300 MHz (excluding cellular). Expanded 9000 memory channels with up to 500 channels per trunked system. 100 system Quick Keys Enhanced GPS compatibility (controls the scanning of groups of channels within systems), channel number tagging, Fire Tone-Out Search (identifies the tones used on fire paging dispatch channels), band scope, individual channel volume offset and priority ID scan for trunked systems. PC Programming/Control capable* (see previous page). Comes with: AC Adapter, Cigarette Adapter Power Cord, DC power cord, Mounting bracket, Telescopic BNC antenna, PC RS-232 Serial Cable and Owner's Manual on CD. Dim: 7.2" w x 2.2" h x 5.9" d; 3.4 lbs. **\$239.99**



BCD-996XT TrunkTracker IV Mobile Scanner with GPS Support (GPS not included) TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Covers: 25-512, 758-824, 849-869, 894-960, 1240-1300 MHz (excluding cellular); 25,000 Dynamically Allocated Channels; Close Call™ RF Capture Technology. Instantly tunes to signals from nearby transmitters; Location-Based Scanning (optional GPS required); Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; DCS/CTCSS Rapid Decode. Replaces the popular BCD-996T. Some of the new features are: Support for P25 Conventional channels that include NAC and TGID user differentiation; Independent GPS Control of Sites and Channel Groups (optional GPS required); Fire Tone Out Search - built-in frequency counter displays the received tones; Band Scope - gives a graphic representation of signal activity; Multi-color display backlight; NAC decoding; System / Channel Number tagging provides rapid access to a specific system or channel; Individual channel volume offset; Channel Alert (both tones and backlight color). PC Programming/Control capable* (see previous page). Comes with: AC Adapter, Cigarette Adapter Power Cord, DC power cord, Mounting bracket, Telescopic BNC antenna, PC RS-232 Serial Cable and Owner's Manual on CD. Dim: 7.2" w x 2.2" h x 5.9" d; 3.4 lbs. **\$519.99**



ICOM HANDHELD RECEIVERS

R-6-16 Wideband Handheld Communications Receiver 100 kHz to 1309.995 MHz (less cellular and gaps) in these modes: AM, FM Narrow and FM wide. The triple conversion circuit provides amazing sensitivity for the size. It has 1300 alphanumeric memories which can store: frequency, mode, step size, duplex and offset information, CTCSS tone, tone squelch and skip settings. Scans frequencies - up to 100 channels per second with 7 different scan formats available. It features a large backlit LCD display. Enjoy 150 mW loud audio with internal speaker. Energy efficient, up to 15 hours of continuous receive capability with two AA cells (not supplied). This radio comes with a wrist strap, belt clip and SMA flexible antenna. Dim: 2.3" w x 3.4" h x 1.2" d; 7 oz. **CALL/WEB**



R-20-06 Wideband Handheld Receiver Covers 0.15 to 3304.99 MHz (cellular blocked), 1250 memories. Perfect for AM/FM radio, monitoring boaters, aviation, conventional public safety and many other commercial services. Multiple scan functions with 100 ch./sec. scan and VSC which opens squelch only on modulated signal detection. Dual watch; Built-in 4-hour IC audio recorder; Auto squelch; CTCSS/DTCS & DTMF decode; RF gain and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; 11-hour Lith-ion battery. Dim: 2.28" w x 5.5" h x 1.22" d. **CALL/WEB**



RX-7-05 Wideband Receiver - Covers 150 kHz - 1300 MHz (cellular blocked) with AM, FM Narrow and FM Wide modes. Has a total of 1650 scannable alphanumeric memories. An independent search button automatically searches preprogrammed frequency ranges. Simple, 4-way cursor buttons provide quick navigation to menus and settings. Pre-set memory channels as well as a new memory management system will allow grouping of frequencies into your favorite categories or groups. It features a large, backlit dot matrix display. High speed scan & search at 100 channels per second, CTCSS/DTCS decode and VSC (Voice Squelch Control). Built-in RF-gain control, attenuator and auto power save. Earphone antenna for FM broadcast receive & ferrite bar antenna for AM. Rain resistant. External DC power jack. Comes with 1100mAh Li-Ion battery, charger and belt clip. Dim: 2.25" w x 3" h x 0.9" d; 7.1 oz. **CLOSEOUT CALL/WEB**

COMMUNICATION RECEIVERS



R-75 HF + 50 MHz All Mode Communication Receiver Covers 0.03 to 60 MHz, all modes, 99 memories plus 2 program scan edge memories. Conventional knob tuning or direct input using the keypad. Features Alphanumeric readout with bar S-meter; DSP; Two-level preamp; Noise blanker; Twin passband tuning; High and low-Z antenna inputs; Several optional CW & SSB Filters available. Operates on 110V with the supplied AC adapter. Dim: 9.5" w x 3.75" h x 9" d; 6.6 lbs. **CALL/WEB**



R-9500-02 Super Performance Multiple Function Wideband "measuring" Receiver - Covers 0.005 to 3335.000 MHz (cellular blocked), in USB, LSB, CW, FSK, Wide-FM and AM modes. 1020 alphanumeric memories and multiple scanning functions. Many normal and wide spectrum scope functions display on the 7-inch wide multi-function TFT LCD. Five roofing filters before the first amplifier, dual independent 32-bit floating point DSP processors and digital I.F. filter. Noise Blanker; Voice synthesizer; Digital Voice recorder; USB connector; Receive assist functions. Dim: 16.6" w x 5.8" h x 13.3" d; 44 lbs. **Special Order CALL/WEB**

WIDE BAND PC RECEIVER

All models include BON CS-4.5 Software with purchase.



REMOTE CONTROL HEAD included with R-1500-05 & R-2500-05

R-1500-25 Remote Head or Computer Controlled Wideband Receiver/Scanner - Use with the Remote Control Head or connect to your Windows® 98SE/ME/2000/XP or Vista™ PC via a USB cable. Coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB & CW. (CW & SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Audio can be stored on the PC in WAV format. Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, WX alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction & Audio Notch Filter. Includes AC adapter, whip antenna, USB cable & software CD. Dim: 5.75" w x 1.6" h x 8.1" d; 2.6 lbs. **CALL/WEB**

PCR-2500-25 - Similar to the R-1500-25, but does not come with a remote control head. Features dual receive and is upgradeable with the UT-122 digital decoder, UT-106 AF DSP unit, UT-108 DTMF decoder or UT-118 D-Star digital voice decoder. **C/O CALL/WEB**

R-2500-05 - Same as PCR-2500-25, but w/Remote Control Head. **CALL/WEB**

HIGH-END RECEIVERS

**AR-8200 MK III-B**

Compact Wideband Receiver - Covers 0.5-3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes. 1000 alphanumeric memories in 20 banks of 50 channels. Scan and search. High stability TXCO; Dual VFOs and twin frequency readout; Alpha display; Band scope; Bar signal meter; Noise limiter; Attenuator;

Computer control and programming capability. Optional cards for Memory expansion, CTCSS decode, 20 second Record/Playback and voice inverter (limit one card at a time). Includes: (4) NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM & telescopic whip antennas.

Dim: 2.4"w x 5.7"h x 1.0"d; 0.75 lbs. **\$629.99**



AR-8600 MK II-B Wideband Receiver - It's extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Band scope; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual.

Dim: 5.9"w x 2.2"h x 6.9"d; 4.9 lbs. **\$929.99**

WIDEBAND LOOP ANTENNA



LA-390 Wideband Active Loop Antenna - A wide range, 10 kHz to 500 MHz single loop active receiving antenna. Only 1 ft. in diameter. Five selectable presets and ranges. A built-in high-gain 18dB for 150 kHz - 30 MHz, 14dB for 30 MHz - 500 MHz. Preselection sharpness has

been improved over the previous LA-380. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12V DC or 110V using the supplied AC wall adapter. **\$379.99**



Wideband

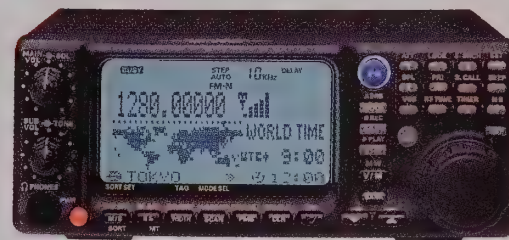
YAESU RECEIVERS

CLOSE OUT!

VR-500 PACK Mini-Receiver

Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries but also comes with FNB-79 NiCad battery and NC-60B wall charger.

Dim: 2.2"w x 4.2"h x 1"d; 7 oz. .. **C/O CALL/WEB**

**VR-5000 Multi-mode Scanning Receiver**

Covers 100 kHz to 2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumerics. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Optional accessories available are **DSP-1** DSP unit and **DVS-4** digital voice recorder.

Dim: 7.1"w x 2.8"h x 8"d; 4.2 lbs. **CALL/WEB**

MFJ RECEIVING AIDS

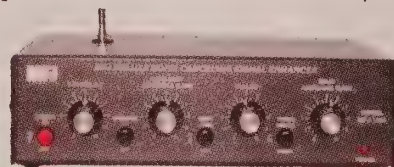
**751B Super Tunable SSB/CW Audio Filter**

Eliminates interference by zeroing in on signals with tunable PEAK/NOTCH filters. Tunes 300 to 3000 Hz with variable bandwidth from 80Hz to nearly flat. Up to 50 dB of notch depth. Uses 12 VDC or MFJ-1312D adapter.

Dim: 4.75"w x 1.75"h x 5"d. **\$89.99**

**752C Dual Tunable SSB/CW Filter**

Comprised of two tunable audio filtering systems to clarify and remove interference from SSB, AM, CW or RTTY signals. The primary filter is a two-section, four pole variable filter with PEAK, NOTCH, LOW PASS, and HIGH PASS functions. The second (auxiliary) filter is a single section two-pole PEAK or NOTCH filter. Variable bandwidth from 40 Hz to almost flat; Adjustable notch depth to 70 dB; Selectable NOISE LIMITER. Input for two rigs. Uses 12 VDC or 110V with the MFJ-1312D adapter. Dim: 10"w x 2"h x 6"d. **\$109.99**

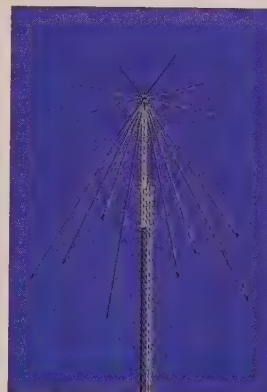


1026 Noise Cancelling Filter - Plug in your station antenna and place a 60 dB NULL on noise and interference before it gets into your receiver. Handles lightning crashes, power line noise, dimmers, power tools, TV birdies and more. Change from a NULL to PEAK to enhance weak signals. Usable as an adjustable phasing network to combine two antennas for directional patterns. Built-in active antenna with telescoping whip. Works on all modes from 1.5 to 30 MHz. RF sensed T/R switch with adjustable delay bypasses transceiver on transmit. Uses 12VDC or 110V with MFJ-1312D adapter. Dim: 6.5"w x 1.5"h x 6.2"d. **\$189.99**



461 Morse Code Reader - Just place this tiny pocket-size portable code reader near your receiver's speaker. Then watch Morse code signals turn into solid text messages as they scroll across an easy-to-read LCD display. No cables to hook-up, no computer, no interface, no other equipment needed. Makes copying high speed CW a breeze. Automatic Speed Tracking locks on and tracks CW speed to decode high and low speeds; Instant Replay can review the last 140 characters. Uses a High Contrast 2-line LCD Display with 32 large 1/4 in. characters. A serial port lets you display CW text on a monitor using a computer and terminal program. When its too noisy for its microphone pickup you can connect the MFJ-461 to your receiver with a cable. Fits in your shirt pocket with room to spare. Smaller than a pack of cigarettes and weighs less than 5.5 oz. Uses a 9-Volt battery (not included). **\$89.99**

5162 Receiver Cable - Connects the 461 or the 462B to a radio's external 3.5mm jack. **\$7.99**



ICOM

AH-8000 Multi-Purpose Discone Antenna

Provides wideband omni-directional signal reception from 100 to 3300 MHz, and can also be used to transmit on 144, 430, 1200 and 2400 MHz Ham bands; up to 200 Watts. Only 3 ft. high and 2.1 lbs.

Attaches with two supplied U-bolts to any 1 to 2 inch mast. Comes preassembled with 49 ft. cable with type-N connectors on each end. **\$249.99**

Icom Handheld Receivers

Your interests. Your hobbies.
All in the palm of your hand.

IC-R20 ADVANCED OPS

- RX: 0.150–3304.999MHz*
- AM, FM, WFM, SSB, CW
- 1250 Alphanumeric Memory Channels
- Dualwatch Receive
- 4-hour Digital Recorder

IC-R6 SHIRT-POCKET COMPACT

- RX: .100–1309.995MHz*
- AM, FM, WFM
- 1300 Alphanumeric Memory Channels
- 100 Ch/Second High Speed Scan
- Computer Controllable¹

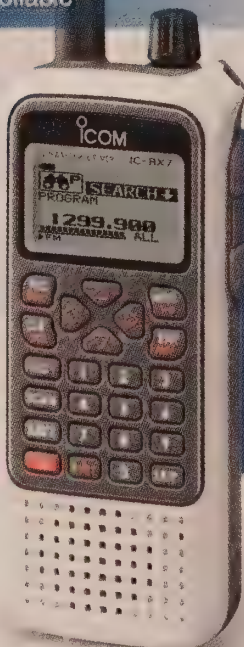
Whether you're having a great weekend at the track, on the road for business, or at home enjoying some quiet time, get a better listening experience with Icom's wideband receivers. Icom brings the world to you.

Visit your authorized Icom dealer today.

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IC-RX7 TRACK READY

- RX: 0.150–1300.0MHz*
- AM, FM, WFM
- 1825 Alphanumeric Memory Channels
- 100 Ch/Second High Speed Scan
- Computer Programmable²
- Water Resistance Equivalent to IPX4



GRUNDIG

AM/FM & SHORTWAVE RADIOS



GS-350DL DELUXE – Offers exceptional value and great reception of AM, FM and international shortwave. Incorporates an analog receiver with digital display of frequency and clock. A single-conversion superheterodyne circuit design receives continuous shortwave from 2.9 - 27.4 MHz, covering all 12 shortwave broadcast bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75 and 90 meters). A wide and narrow switch on the front panel allows you to narrow the radio's bandwidth to reduce adjacent channel interference. A new SW/AM frequency lock circuit improves stability to reduce drift. There is a built-in 12/24 hour clock with 90 minute sleep timer. Uses a built in telescopic antenna for FM and shortwave plus a built in ferrite bar antenna for AM. On the back panel there's a 75 ohm antenna jack for FM and terminals for AM/SW wire antenna and ground. Side left and right line level outputs and a stereo/mono switch and a stereo earphone jack for private listening. A 4 inch speaker provides solid sound. Comfortable carrying handle. Requires (4) D or AA cells (not supplied), includes an AC adapter. Dim: 12.5" w x 7" h x 3.5" d; 3.56 lbs. **\$99.99**



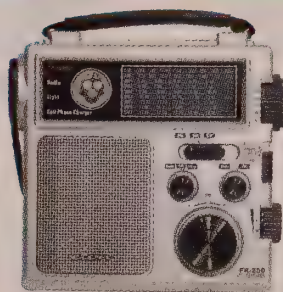
G-6 AM/FM/Aircraft Band/Shortwave Portable Radio – The Aviator. Covers AM, FM, Aircraft Band (117-137 MHz) and Shortwave (1.711 to 29.995 MHz). Dual conversion, includes SSB reception. Digital tuning with LCD readout, 700 memories with 4 character naming. Tunes AM, FM, the VHF aircraft band or shortwave frequencies with direct keypad entry. Or use the AUTO tuning feature to browse stations and stop on the next available frequency. You can also use "D5" tuning to get a taste of what's playing—stop on the next available frequency for five seconds at a time. International clock and wake-up alarms. Power source: 2 AA batteries (not included); 2 AA rechargeable Ni-MH batteries (not included); AC adapter (included). Dim: 4.9" w x 3" h x 1.2" d; 7.3 oz. **\$99.99**



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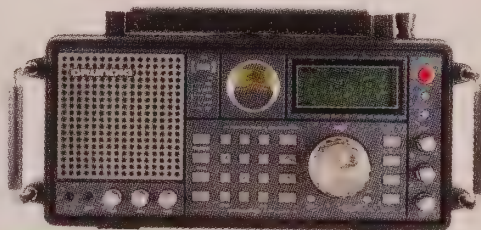
SEE THE LATEST DEALS AND NEW PRODUCTS



FR-250 Emergency Radio – Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands (16, 19, 22, 25, 31, 41, 49 meters). Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar. Dim: 6.5" w x 6" h x 2.5" d; 1.2 lbs. **\$49.99**



FR-600 Solarlink Emergency Radio – A compact radio that goes with you, anywhere. The digital tuner covers AM (520-1700 kHz), FM (88-108 MHz), and SW (5800-12200 kHz). Includes 7 NOAA weather channels with S.A.M.E. (location based alerts). Rotary selector knob and LED backlit digital display. Digital clock function with alarm, snooze and sleep. Powers from four difference sources: Dynamo/hand crank which charges the built-in NiMH battery; (3) AA batteries (not included); AC via USB adapter (not included) and top-mounted Solar Panel. You can even use it to charge your cell phone or MP3 player. Has a powerful light source (four white and one red LED) with magnifier and emergency siren/flashing beacon. Jacks: 3.5mm headphone, DC-in, USB phone charger and AUX-in. Gaskets seal out moisture. Dim: 7.7" w x 8.5" h x 2.5" d; 1.9 lbs. **\$79.99**



SATELLIT 750 AM/FM-Stereo/Shortwave/Aircraft Band Radio with SSB – When you want full shortwave capabilities and a classic design, choose the Satellit 750. A 360-degree rotating AM antenna enhances the radio's ability to pull in weak AM signals. You can listen to AM, FM, SW, LW, SSB and aircraft band frequencies, and you can program in up to 100 of your favorites for each band. You can also connect your MP3 player for even more listening choices. AM, FM, Aircraft Band (118-137 MHz) and Shortwave (1711-30000 KHz); Single Side Band (SSB); Auto/Manual/Direct frequency key-in and station memory tuning; Auto Tuning Storage function (ATS) for FM/AM; 1000 station memories; Dual alarm clock function. Dim: 14.7" w x 7.2" h x 5.8" d; 5.25 lbs. **\$299.99**

C. CRANE

**SWP AM/FM/Shortwave Pocket Radio**

Exceptional AM reception and audio quality. Sensitive enough to outperform comparable radios in its class. Small, tuck it in a briefcase, purse or carry-on bag. Covers: AM (522-1620 kHz @ 9 kHz step) & (520-1710 kHz @ 10 kHz step), FM (70-108 MHz), SW1 (2300-7500 kHz) and SW2 (9200-22000 kHz). Quickly and easily retrieve up to 200 favorite AM/FM and Shortwave stations in any order by simply turning the Tuning Knob and using the favorites feature. Non-volatile memories remain when you take out the batteries. It has a keypad for direct access to any frequency and a flip-out back stand. Alarm clock, stereo headphone jack, sleep timer, display light and carry pouch. Runs about 70 hours on 2 "AA" batteries (not included). Dim: 5" w x 3" h x 1.2" d; 6.5 oz. **\$44.99**



CSW AM/FM/Shortwave Radio – Covers: AM (522-1620 kHz @ 9 kHz step) & (520-1710 kHz @ 10 kHz step), FM (87-108 MHz) and SW (1711-29999 kHz). Large, easy-to-read LCD display and all the adjustments necessary for excellent performance under various conditions. Features: RF gain, Bandwidth, Bass/Treble controls, Fast and slow tuning, 50 memories, Lighted buttons, Clock radio with snooze alarm, Stereo line output and headphone jack, IF output for input to Computer, 5-inch speaker. Runs on four "D" size batteries or four backup "AA" batteries (not included). Using the supplied AC adapter the built-in charging circuit will recharge NiMH batteries (not included). Dim: 11.25" w x 7.25" h x 3.5" d; 4.2 lbs. . **\$139.99**



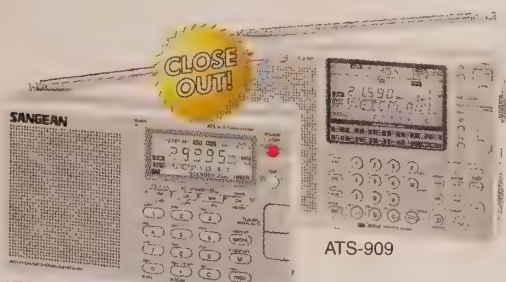
CC2B AM/FM Broadcast/2M Ham/Weather + NOAA Alert Radio – Receives AM (520-1710 kHz), FM (87.5-108 MHz), 2M (144-148 MHz) and 7 Weather channels. Designed for long-range AM reception and emergencies. Features audio that's optimized for voice clarity. After a station is selected, the signal is evaluated for several seconds, then locked in. The Weather Band keeps you informed of any government-issued alerts and the 2M band can be useful. It can act like a simple radio scanner searching five memories for Ham activity. Bright backlit LCD display has three levels of adjustable brightness plus "off". Five memories per band (AM, FM, Weather and 2-Meters), adjustable bass/treble, clock alarm with sleep timer, auto scan, stereo headphone jack, line input and output jacks. Dim: 11" w x 6.5" h x 4" d; 4 lbs. **\$149.99**



ATS-404

ATS-404 PLL Synthesized World Band Receiver – Coverage: AM, FM (stereo with earphones) and 14 SW bands (2.3–26.1 MHz). Tune via Up-Down buttons, Automatic scan. Keypad or 45 Memory presets. Backlit LCD, 12/24 hour clock-timer with alarm and snooze. Low-battery indicator, lock, dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) “AA” batteries. Dim: 6.5”w x 4”h x 1.5”d; 10 oz. **\$79.99**

ATS-505 PLL Digital World Radio – Coverage: LW, AM, FM (stereo via earphones) and SW (1711 kHz to 29.999 MHz). Tunes via Manual tuning knob, Up-Down buttons, Scan, Keypad, or 45 memories. SSB reception, auto preset System lock, tone control, local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, wind-up antenna, carry case & earphones. Uses (4) “AA” batteries. Dim: 8.5”w x 5.3”h x 1.6”d; 24 oz. . **\$129.99**



ATS-606A

ATS-606A PLL World Band Receiver – Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD, 54 memories, scanning fine tuning, dual digital clock-timer-alarm, FM stereo with earphones. Uses (3) “AA” batteries. Includes wind-up antenna, AC adapter and earbuds. Dim: 5.75”w x 3.5”h x 1.25”d; 1 lb. **C/O \$99.99**

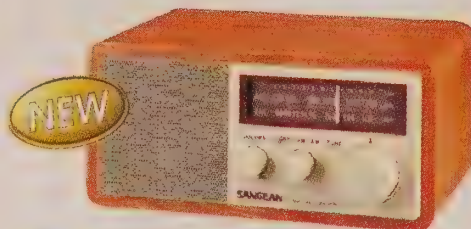
ATS-909 PLL World Band Receiver – Coverage: LW, MW, FM and SW (1711 kHz to 29.999 MHz). Tunes via: Manual knob, Keypad, Auto scan, Up-down tuning or Memory recall. SSB & CW reception, wide/narrow switch. Stores 307 presets in alpha memories. RDS display of station name/time. Clock with 12/24 hour time, (3) timers and sleep timer; displays 42 city times. Recorder output. Uses (4) “AA” batteries. Includes AC adapter, wind-up antenna, stereo earbuds and carrying case. Dim: 8.5”w x 5.375”h x 1.375”d; 1.9 lbs. ... **C/O \$199.99**



RCR-2 Digital Atomic Clock Radio – A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5”w x 3”h x 5.25”d; 2 lbs. **\$69.99**

SANGEAN™

AM/FM & SHORTWAVE RADIOS WIFI INTERNET & HD RADIOS



WR-11 High Fidelity Radio – This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The wood veneered cabinet will accent any room. Eighth inch Headphone, record out and input jacks. AM & FM rear antenna inputs. Dim: 9.6”w x 4.6”h x 6.125”d; 5.18 lb. **\$99.99**

ANT-60 – Portable, wind-up, shortwave antenna for use with most shortwave receivers. **\$13.99**



WFR-20 Wi-Fi Internet Radio – You can listen to over 6000 Internet Radio stations (over 20,000 on-demand streams) in 250 locations from 60 genres. Operation requires a broadband wireless Internet (802.11b/g) or wired Ethernet (10/100 Mbps, RJ-45) network connection to connect into your wired or wireless home network. It also has a feature called “Network Music Player” which taps into the music stored on your PC using Windows® Media Player®. Supported sound formats include: MP3, WMA, AAC, AIFF, FLAC, Real Audio and AU. Features: 12 radio station presets; built in 12/24 hour clock with four alarm timers and sleep timer; bass and treble controls; three-line alphanumeric display. Intuitive menu system operates from single rotary control knob or full function remote control. Great sound from the acoustically tuned wooden cabinet housing two high quality 5 inch full-range stereo speakers. With the Network Music Player function a listener has access to their digital music library in any room in the house with no additional wires using their Wi-Fi network. Rear 3.5mm jacks for auxiliary input (iPod, MP-3 player, etc), earphone output jack, line output jack and RJ-45 Ethernet. Note: does not tune conventional AM/FM broadcasts. Dim: 11.5”w x 4.5”h x 9.5”d. **\$279.99**



USE YOUR CREDIT CARD



HDT-1 Component HD Tuner – An FM (87.5-108 MHz) and AM (520-1710 kHz) HD Radio tuner with multi-casting reception. Add it to your home audio system, and experience the crystal-clear sound and expanded listening choices of HD Radio programming. Gain access to the new, free digital programming where you'll hear a big improvement in sound fidelity; FM approaches CD-quality, and AM sound rivals current FM quality. The HDT-1 also receives standard analog broadcasts. Text information such as station IDs, artist names, and song title plus a clock displays on the LCD screen. Features: 40 station presets (20 FM, 20 AM); External AM and FM antenna input; Signal strength meter; Backlit LCD display; RCA stereo line-level output drives your system amplifier; IR remote control. Dim: 16.9”w x 2.8”h x 10”d; 5.6 lbs. **\$179.99**



HDR-1 Tabletop HD Radio – Experience the new crystal-clear, distortion-free technology that gives you CD quality FM and FM quality AM reception. Covers: FM 87.5-108 MHz and AM 520-1710 kHz, has 20 memory presets, and features a wood grained, acoustically-tuned wooden cabinet that creates improved bass response and realistic acoustic reproduction. Includes a clock with sleep timer, snooze, and dual alarm with Humane Waking System – a choice of a soft gentle buzzer with gradually increasing volume, or your favorite local station. An AUX-input allows connecting a MP3 player. A IR Remote Control allows convenient operation of all functions and station scanning. The Backlit LCD Display shows Channel No., Channel Frequency, Ensemble Label, Service Label, Dynamic Label, Transmission Mode, Data Rate, Secondary Service Availability and Clock functions. Additional features: Auto Tuning System (ATS); Auto Preset System; FM RDS (TBC); Automatic Multiplex Re-configuration; Analog Only Mode; Split Audio Mode; Tone & Bass Control EQ Pre-sets; Multicast Capability; Program Associated Data (PAD); Hybrid and Full Digital Radio Reception; Headphone jack. Includes the AC power cord, external AM & FM antennas and remote. Dim: 11.5”w x 4.5”h x 7.5”d; 6.56 lbs. **\$179.99**

RCA
SUPERADIO III™



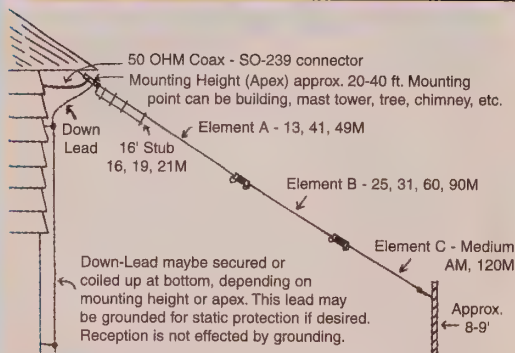
RP-7887 High Performance, Long Range AM/FM Portable Radio – Tuned RF stages on both AM and FM; FM swivel whip antenna, AM ferrite rod antenna; Ceramic IF filter, plus 3 IF tuned circuits on FM; 4 IF tuned circuits on AM; Selectable normal or wide AM; Switchable AFC; Precision vernier tuning; 6.5 in. woofer, plus 2 in. tweeter; Bass and treble controls; Volume plus loudness circuitry to boost bass response at low volumes; Headphone jack; AM/FM external antenna terminals; Uses AC power or six D-cell batteries (not included). **\$59.99**

SONY



ICF-SW7600GR – Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo via headphone jack. LCD readout. Tuning via: keypad, manual, auto scan and 100 memory scan. SSB/CW mode and AM synchronous detection; LED “tune” indicator; Dual time clock with sleep timer; Record jack; Tone switch; 3 inch speaker; External antenna jack; Uses four “AA” cells or 6 VDC. Wind-up antenna, wrist strap, case. Dim: 7.6”w x 4.75”h x 1.3”d; 22 oz. ... **\$159.99**

ALPHA DELTA COMMUNICATIONS, INC.

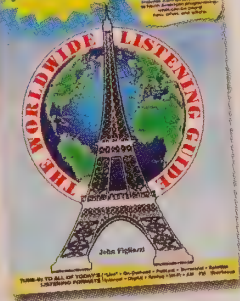


DX-SWL Shortwave 60' Sloper Antenna – Covers Medium Wave AM, 120/90/60/49/41/31/25/21/19/16 and 13M. It operates as quarter wave sloper which means the wires are a quarter wave long, or multiples of a quarter wave on each frequency band. Compared to half wave dipole, the other quarter wave, which is necessary for performance and the proper feed point impedance, is made up of the “Down-Lead” wire which is attached. **\$119.99**

DX-ULTRA Shortwave 80' Dipole Antenna – The heavy 12 ga. solid copper elements and ISO-RES inductors provides receive coverage 500 kHz to 30 MHz. The Delta-C Center insulator with built in SEP Arc-Plug should be elevated ~20 ft. high. **\$159.99**

THE WORLDWIDE LISTENING GUIDE

NEW!



By John Figliozi. Modeled on his popular *Worldwide Shortwave Listening Guide*, this new book explains radio listening in all today's formats—“live,” on-demand, WiFi, podcast, terrestrial, satellite,

internet, digital and, of course, analog, AM, FM and SW. Book includes a comprehensive programming guide to what can be heard how, when and where. Spiral-bound to open in a flat, easy-to-use format. **WSY WWLG \$24.99**

MFJ PRESELECTORS, TUNERS ACTIVE ANTENNAS, etc.

956 SWL Receiver Antenna Tuner/Preselector

Boost your favorite stations while rejecting images, intermodulation, and phantom signals! Greatly improves reception from 0.15 to 30 MHz, especially below 2 MHz. It has tuner bypass/ground receiver positions. Dim: 3”w x 2”h x 4”d. ... **\$69.99**



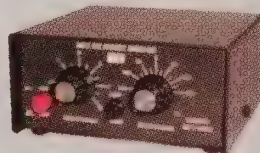
959C SWL Receiver Antenna Tuner/Pre-Amplifier – Provides proper impedance matching resulting in maximum signal transfer from antenna to receiver. It covers 1.6 to 30 MHz. 20 dB preamp with gain control boosts weak stations. 20 dB attenuator prevents overload. Select from 2 antennas and 2 receivers. Dim: 9”w x 2”h x 6”d. Use a 9-18 VDC or 110 VAC with the optional MFJ-1312D. ... **\$109.99**



1040C All-Band Preselector – A low-noise, high gain dual-gate MOSFET amplifier boosts signals and rejects out-of-band signals and images from 1.8 to 54 MHz. Push-button switches for two receivers, two antennas, attenuator and ON/BYPASS. Usable with transceivers up to 125W (automatic bypass on TX), bypassed when off. Uses 9 to 12VDC or 110V with an MFJ-1312D. Dim: 6.5”w x 2.5”h x 4”d. **\$119.99**



1045C Receiver Preselector – Improve copy on weak signals and reject out-of-band signals, images from 1.8 to 54 MHz. Uses dual gate MOSFET, bipolar transistors for low noise and up to 20dB gain. Gain control. Connect 2 antennas, 2 receivers. Uses 9-18 VDC or MFJ-1312D adapter. **\$89.99**



202B RX Noise Bridge – Quickly adjust almost any antenna for maximum performance, 1 to 100 MHz. Easily determine whether to lengthen or shorten your antenna for minimum SWR, the resonant frequency, feedpoint resistance and reactance. Works with any receiver or transceiver. Calibrated resistance scale, expanded capacitance range and built-in range extender. Dim: 4.25”w x 2”h x 4”d. Uses a single 9-Volt battery (not included). **\$79.99**



306 AM/FM/SW Converter – Add 19, 25, 31 and 49 Meter band Shortwave reception to your car radio. Simply plug-in the vehicle's antenna, insert the MFJ-306 antenna cable into the car radio and connect to 12V. Dim: 5”w x 1.5”h x 3.5”d. **\$99.99**



8100W Regenerative Shortwave Receiver Listen to SW and Hams on SSB/CW and more. Covers all or part of the 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13M in 5 bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers. Dim: 7”w x 2.5”h x 6”d; 1 lb. **\$109.99**
8100K Same, but in KIT form. **\$79.99**



1024 Outdoor Active Antenna – Covers 50 kHz to 30 MHz. A separate RF amplifier with a 54 in. whip antenna mounts remotely away from electrical noise for maximum signal. It connects by the supplied 50 ft. coax to an inside control box with 20 dB attenuator, gain control, ON LED and a switch that selects two receivers and auxiliary or active antenna. Uses 12VDC or 110VAC with an MFJ-1312D adapter. Dim: 6”w x 3”h x 5”d (control); 3”w x 2”h x 4”d (remote). **\$149.99**



1022 Compact Active Antenna – Covers 0.3 to 200 MHz. Improves the reception of international shortwave, ship-to-shore, airline, commercial RTTY, etc. Improves scanner radio reception from high to low band VHF. The J-310 FET and MRF-901 devices give excellent low noise reception using the 20 in. telescoping antenna. Has On/Off switch, power on LED. Uses 9V battery or 110 VAC with MFJ-1312D. Dim: 3”w x 1.25”h x 4”d. **\$69.99**

1020C Indoor Active Antenna – Covers 0.3 to 40 MHz with a 21 inch telescoping antenna and dual gate MOSFET & gigahertz bandwidth buffer that improves gain and selectivity, reduces noise and intermod. An effective preselector when used with an external antenna system. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter. Dim: 6”w x 2”h x 5”d. **\$99.99**



1046 Passive Preselector – Covers 1.6 to 33 MHz, receive only, passive (non-amplified). Improves the performance of nearly any HF or shortwave receiver. Eliminates phantom signals, intermod, blocking and cross modulation caused by strong out-of-band shortwave broadcast signals mixing and producing unwanted in band signals. Protects your sensitive receiver input from damage caused by very strong local signals. Dim: 7.5”w x 2.5”h x 3.25”d. **\$99.99**
1048 Passive Preselector – Same as 1046, but a RF sensed TX/RX switch with adjustable delay automatically bypasses on transmit. **\$129.99**

Get Ready For The
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2011

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Home of some of the best known theme parks on earth, Orlando has all you need to round out your visit. It will be a great vacation for you and the family. Make your plans now for the **2011 Orlando HamCationSM**.

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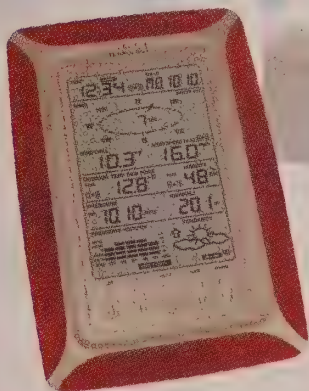
- Special Guest Speakers
- Over 150 Commercial Booths
- Over 400 Swap Tables
- Largest Tailgate Area in the Southeast
- Florida Weak Signal Society Quarterly Meeting
- Testing on Saturday
- Free Parking
- RV Camping on Premises (\$25 per night)
- Fox Hunt (4pm Saturday)
- Guest Friendly Central Florida Atmosphere
- Theme Parks Nearby
- Courtesy Talk-In On 146.76 (Backup Talk-In On 147.015)



Orlando HamCation is a registered service mark of the Orlando Amateur Radio Club.



WEATHER STATIONS, etc.

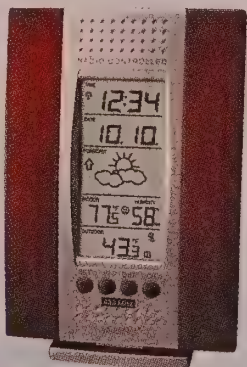


WS-1612CH-IT Professional Weather Center

Operates wireless at 915 MHz from a remote sensor up to 330 ft. away.

Provides:

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Records MIN/MAX temperature and humidity with time and date of recording
- Low/high outdoor temperature & humidity alarm
- Relative air pressure (inHg or hPa)
- Barometric pressure with 12 hour history graph (in inHg or hPa)
- Storm warning alarm
- Total rainfall (inches or millimeters)
- Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display
- Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset
- Selectable LCD contrast, Low Battery indicator
- Dim: Wind Sensor: 6.45" w x 9.84" h x 7.58" d; Thermo-hygrometer: 2.44" w x 2.25" h x 6.18" d; Rain Sensor: 2.75" w x 5.51" h x 5.39" d; Receiver: 6" w x 8.9" h x 1.25" d. **\$139.99**



WS-7014CH Wireless Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity and atomic time. Forecast icons indicate conditions (Cloudy, Sunny or Rain). The wireless outdoor temperature sensor can be located up to 82 ft. away. Finished in black with aluminum trim. Can be free standing, with the included stand attached, or may be hung on the wall. Powered by (4) "AA" alkaline batteries.

Dim: 3.54" w x 5.43" h x 1.18" d. **\$49.99**

WS-7394U-CH-IT

Wireless Forecast Station

Operates wireless at 915 MHz with a range of up to 330 ft.

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature (°F or °C)
- Indoor temperature (°F or °C) and relative humidity %
- Records MIN/MAX temperature and humidity with time and date of recording
- Barometric pressure with 12 hour history graph; Barometric tendency arrow and Indoor comfort level icon
- Atomic time and date with manual setting; automatically updates for Daylight Saving Time (on/off option); 12/24 hour time display; Perpetual calendar; Time zone setting
- Receiver and Sensor both use (2) "AA" alkalines

WS-8035U-SAL-IT

DLX Wireless Forecast Station Comes with wireless outdoor thermometer and wireless outdoor relative humidity sensor with a 300 ft. range.

- Digital Relative Barometric Pressure Readout with 24-hour History Graph, Trend Arrow and Forecast Icon
- Indoor and Outdoor Temp. (F or C) and Humidity (% RH)
- Indoor Comfort Level Icon
- Min./Max. Temperature and Humidity with Time and Date Stamp
- Atomic Time and Date with Manual Setting
- Auto Update for Daylight Saving Time
- Time Alarm with Snooze
- 12 or 24 Hour Time, auto updates for DST
- Perpetual Calendar • Moon Phase Indicator
- Time Zone Setting, US Time Zone Map
- (2) AA alkaline batteries in receiver and sensor
- Dim: 10" w x 7.5" h x 1" d. **\$89.99**

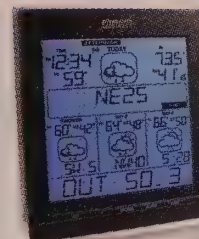
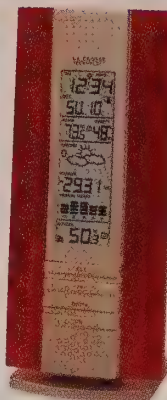
WS-450B Color Forecast Station

Features animated color weather graphs that make it easy to gauge the weather at a glance. Predicts the weather for the next 12-24 hours and displays a forecast icon based on the change of atmospheric pressure. The indoor/outdoor temperature and humidity displays include animated circular color graphs. Also displays the heat index and dew point.

- Comfort level indicator
- Memory function records MIN/MAX temperature, humidity, heat index and dew point
- 12 or 24 clock includes an alarm with snooze and automatically sets to the U.S. Atomic Clock, and adjusts for Daylight Saving Time
- Perpetual calendar
- Backlight with auto, high, low and off settings
- Remote sensor with range up to 246 ft.
- Power: Main unit (3) AAA alkalines or included 6.0 volt AC adapter; Sensor: (2) AAA alkalines
- Dim: 6.5" w x 3.5" h x 2" d. **\$69.99**

WS-9023U-IT Wireless Weather Station

Monitor indoor and wireless outdoor temperature, outdoor humidity, min./max. temperature and humidity and 12/24 hour time. Wall hanging or desktop. Uses 2 "AA" batteries in receiver and sensor. 915 MHz, 330 ft. range. Dim: 2.76" w x 4.54" h x 1.14" d. **\$29.99**



WD-3209U 4 Day Internet Powered Wireless Forecaster with Forecast Alerts

Connected to the internet, this unit gives you access to the same quality weather information as meteorologists. It works without Wi-Fi, there is no software to install, and the forecasts are totally free (no subscription). High-speed internet and a network router are required. A Weather Gateway connects to the router with an included LAN cable and feeds continuous secure wireless forecasts up to 330 ft. to the display. A PC is only required for one-time easy set-up or to customize features. You can choose forecast information from over 60,000 locations in the United States and Canada. The wireless display features a large LCD with E.L. backlight for easy night viewing; Automatic time and date; Time alarm with snooze; Indoor temperature and forecasts for the daily high and low temperature. Includes a wireless outdoor temperature sensor. With this unit you can also monitor your backyard temperature from anywhere in the world with a free membership available at theweatherclub.com. Dim: 5.9" w x 7.4" h x 1.18" d. **\$99.99**



WA-1240U Weather Direct 4 Day Internet-Powered Talking Weather Station

An advanced weather station with a voice: "Good morning Jack (Put Your Name Here), here's the

forecast for Milwaukee, Wednesday, September 30th" ... or create your own custom message. Push the audio forecast button to play the current forecast and the A/B/C speaker buttons to play information that you select. Plus, listen to your choice of news headlines, entertainment, sports, etc. via the same wireless internet connectivity used by the WD-3209U shown above. Receive forecasts for each morning, afternoon, evening and night for today, tomorrow, day 3 and day 4. The wireless display features automatic time and date, time alarm with snooze and forecasts for the daily high and low temperature. The bottom LCD line scrolls your wireless outdoor temperature, selected location name, sun rise/set and forecast. The included wireless temperature sensor monitors your backyard temperature from the monitor, up to 330 ft. away. Like the WD-3209U, you can also monitor your backyard temperature from anywhere in the world via the internet. Uses (3) C and (2) AA batteries (not included). Includes AC adapter. Dim: 8.26" w x 5.67" h, 2.92" d; 2.5 lbs. **\$99.99**



330 ft. Sensor Range



WS-9121U-IT-CBP Wireless Thermometer

Shows Indoor temperature and wireless outdoor temperature from remote sensor. 12/24 hour time display. Uses CR2032 and (2) AAA alkalines. Dim: 2.29" w x 4.66" h x 0.69" d. **\$19.99**

WS-9080U-IT-CBP Wireless Temperature Station

Indoor temperature, and outdoor temperature via remote sensor. Records MIN/MAX with time/date stamp. 12/24 hour Atomic clock; Uses (2) AAA and (2) AA alkaline batteries. Dim: 3.74" w x 5.35" h x 0.74" d. **\$29.99**

WS-9004U-IT

Wireless Rain Gauge

Wireless, self-emptying bucket. Shows total rain and rainfall for the last 24 hours.

- User set rainfall alarm from .05 to 4 in. over 24 hours
- Current rainfall indicator; light rain and heavy rain indicators
- Remote sensor range: up to 330 ft.
- Receiver and sensor both use (2) AAA alkalines
- Dim: 2.35" w x 3.85" h x 0.83" d. **\$29.99**



EA-3010 Handheld Anemometer

Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature and wind chill. LED back light and auto-off. Weather Resistant Case, neckband. Powered by (1) CR2032 battery.

Dim: 1.63" w x 4" h x 0.7" d. **\$49.99**



WT-8005UB Atomic Clock

Select your time zone and this advanced clock will automatically synchronize itself to the WWVB radio signal from NIST in Fort Collins, CO using its own built-in VLF receiver

- Plus**
- Shows 12/24 Hour Time
 - Calendar: Month, Date, Day
 - Automatic Daylight Savings Time Update
 - Time Alarm w/ Snooze
 - Monitors Indoor Temperature (°F or °C)
 - Wall Hanging or Free Standing
 - Up to 24 months operation on (2) AA Alkaline Batteries (not included)
 - Dim: 9" w x 7" h x 1" d



\$29.99



WS-8117U-IT-OAK



WT-3102S

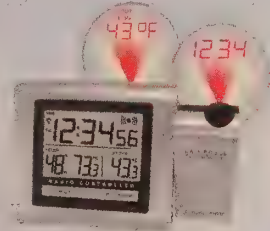
WS-8117U-IT-OAK Digital Atomic Wall Clock Shows 12/24-hour time, a perpetual calendar, indoor temperature and outdoor temperature via a remote sensor up to 82 ft. away. Clock sets automatically via WWVB, has 13 time zone settings, daylight saving time and 8 moon phase icons. Alarm with snooze. Wall mount or free standing. Requires (4) "AA" alkaline batteries. Oak finish.

Dim: 12.2" w x 8" h x 1.18" d. **\$46.99**

WT-3102S Analog Atomic Clock - 10 in. diameter. Automatically sets time, accurate to the second and updates for daylight saving time. Four time zone settings. Uses "AA" alkaline battery. **\$19.99**

WT-5120 Projection Atomic Alarm Clock

Displays 12 hour time, indoor temperature and humidity, plus outdoor temperature on its large LCD display. It alternately projects time and outdoor temperature on the ceiling or wall. Alarm and snooze. AC Adapter Included. Dim: 5.52" w x 3.6" h x 1.9" d. **\$39.99**



DAVIS WEATHER STATIONS



6152 Wireless Vantage Pro2 - It uses frequency hopping Spread Spectrum to transmit and receive data up to 1000 ft. line of sight. Quick view icons show the forecast at a glance-sunny, partly sunny, cloudy, rain or snow while a moving ticker-tape display gives more details. The sensor suite combines a rain collector, temperature, humidity and anemometer into one package-making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat. **\$539.99**

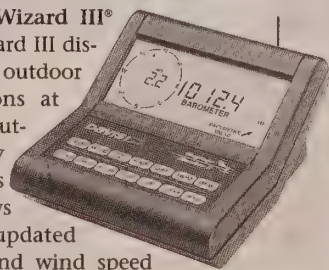


6250 Vantage Vue Wireless Weather Station Uses frequency-hopping spread spectrum radio technology to wirelessly send data up to 1,000 feet and provides weather updates from the outdoor integrated sensor suite to the indoor console every 2.5 seconds. The indoor console's Weather Center feature, provides extensive additional information for each weather variable. These include daily highs and lows, temperature changes by the hour, air pressure changes and astronomical data such as moon phase and meteor showers. Easy-to-read backlit LCD display with a glow-in-the-dark keypad. The console's built in sensors provide indoor temperature and humidity as well as barometric pressure measurements. The outdoor Integrated Sensor Suite is powered by a solar panel during the day and stored energy at night. **\$369.99**

7425 Weather Wizard III

The Weather Wizard III displays indoor and outdoor weather conditions at the touch of a button. Large display includes compass rose which shows continuously updated wind direction and wind speed information. With the Complete Weather Wizard III station, you'll also get daily and accumulated rainfall. This basic station includes: Anemometer with 40' (12 m) cable; Outside temperature sensor with 25' (7.5 m) cable; Inside temperature sensor; Console with AC-power adapter and battery backup (battery not included); Cables are connected to the console through a junction box with 8' (2.4 m) of cable. Dim: 5.25" w x 3" h x 5.875" d. **\$199.99**

7852 Rain Collector II - For the 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable. **\$69.99**

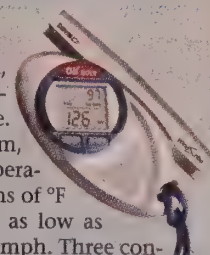


WIND GAUGES

0276 Windscribe

Ultrasonic Wind Meter

Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" w x 3" h x 0.75" d; 3.5 oz. **\$99.99**



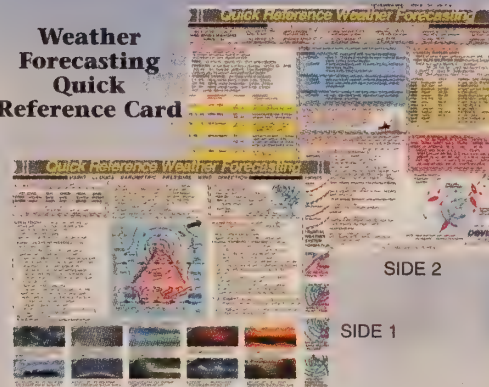
0281 Wind Wizard

Wind Speed Indicator

Accurately measures speed from 0-60 mph in miles per hour, meters per second and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed. Dim: 3.625" w x 2.875" h x 1" d folded; 2.5 oz. **\$49.99**



Weather Forecasting Quick Reference Card



0131 Weather Forecasting Quick Reference Card

- Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog, other hazardous conditions & more. Waterproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in. **\$9.99**

MIDLAND WEATHER RADIOS



74-250C



WR-300

74-250C All Hazard Alert Handheld Weather Radio with S.A.M.E. Technology - Get up-to-the-minute NOAA weather and hazardous-conditions information. Alarm with snooze and thermometer. Dim: 2.75" w x 4" h x 1" d. **\$49.99**

WR-300 AM/FM Alarm Clock Radio with NOAA Weather/All Hazards - For security, be alert to conditions that affect you. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Operates from included AC power adapter or (4) AA Batteries (not included). **\$59.99**



TV ANTENNAS

WINEGARD®
Clearly the World's Best®

HD-7084P

Platinum Series VHF/UHF/FM Antennas

The 75 ohm downlead coupler simply snaps into place for fast, easy assembly; eliminates the need for matching transformers when using coax cable. Steel hardware is zinc plated for maximum corrosion resistance.

HD-7010 Range: ~45 miles VHF & ~30 miles UHF; 22 elements (9 VHF, 13 UHF); 66.5" boom. **\$89.99**

HD-7084P Range: ~80 miles VHF & 45 miles UHF; 68 elements (28 VHF, 40 UHF); 131.75" boom length. **\$199.99**



HD-9095P

Platinum Series UHF Only Antennas

HD-9075P Range: 30-50 Miles - 26 elements; 60" boom length. **\$99.99**

HD-9095P Range: 40-60 Miles - 39 elements; 95" boom length. **\$129.99**

To see what antenna works best for you go to www.dtv.gov and click on the Reception Maps

TV COAXIAL CABLE



TV-2900



RG-6 75 ohm TV Coaxial Cable - Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are installed on each end.

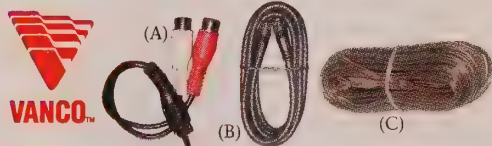
CX-0625 - 25 ft. length. **\$16.99**

CX-0650 - 50 ft. length. **24.99**

CX-6100 - 100 ft. length. **34.99**

TV-2900 Matching Transformer - Adapts 75 ohm coaxial cable with F-type connectors to a 300Ω TV antenna or TV set. Includes F connector and weatherproof boot. **\$6.99**

AUDIO/VIDEO CABLES



AC-3F Audio "Y" Adapter (A) - (1) RCA Plug to (2) RCA Jacks, Shielded, Red/White, 6 in. **C/O 99¢**

FF-3 Coax Cable (B) - 3 ft. of TV cable made of 5 ohm RG-59 cable with "F" connectors. **C/O 69¢**

FF-6 Coax Cable (B) - Same but 6 ft. **C/O \$1.29**

SPW-52 Speaker Wire (C) - 25 ft. 18 gauge, clear flexible jacket with polarity stripe. **\$8.99**

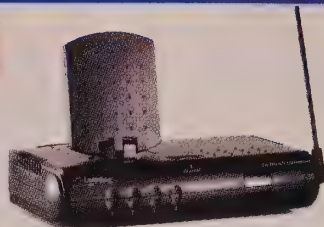


AUDIO/VIDEO SWITCHER



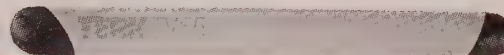
AVW-089 Audio/Video Switcher - Input audio and video from 3 different sources and switch them to a single output. **\$8.99**

TERK
LEAPFROGS

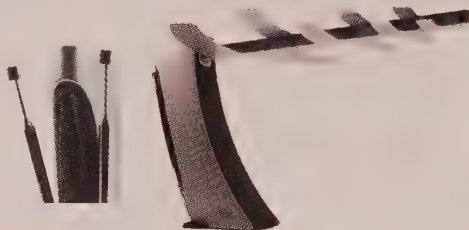


LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System - An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 7"w x 1.5"h x 4.8"d. **\$99.99**

COMPACT TV ANTENNAS



TV-55 Amplified Out/Indoor TV Antenna - Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46"w x 3.5"h x 2.25"d. **\$99.99**



HDTV-1 Indoor UHF/VHF/HDTV Antenna Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception - high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5"w x 9.1"h x 16.5"d; 42" high with dipoles extended. **\$49.99**

AM/FM ANTENNAS



TOWER AM-FM Tower Antenna (left) - Built-in amplifier with gain control improves FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter. **\$27.99**

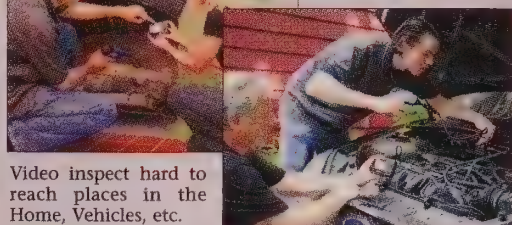
ADVANTAGE External AM Antenna (middle) Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input. **\$49.99**

PI-B Powered Indoor AM/FM Antenna (right) Improves FM reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable AM loop enhances broadcast band reception. AC adapter included. Dim: 6"w x 6"h x 1.5"d. **\$49.99**

Wireless
ECG® INSPECTION CAMERA
with Removable **COLOUR** LCD Monitor



Find the problem
Faster - Easier!



Video inspect hard to reach places in the Home, Vehicles, etc.

WIC-1 Wireless Inspection Camera - For visual inspection in hard-to-reach areas, even in total darkness or underwater; has two super bright LEDs for illumination. Applications include: HVAC, automotive, cable routing, electrical, general contracting, plumbing, etc. Features a 2.4 inch color LCD monitor (with built-in Lithium-ion battery) which can detached and operated up to 30 ft. away. Has VIDEO OUT for recording, etc. The 3.28 ft. flexible shaft containing the camera is waterproof and can be lengthened with optional extensions. Camera is powered by 8-24VDC or, (4) AA batteries. Includes AC adapter, inspection mirror, hook and magnet retrieval tools, video cable and storage case. Weight: 1.48 lbs. **\$169.99**

WIC-4 3.28 ft. Extension - Extends the camera shaft an additional 3.28 ft. Use up to three of these extensions to add 9.84 ft. to the length. **\$29.99**

More Info:

www.WirelessInspectionCamera.com



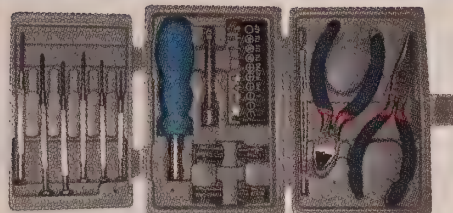
Hand-held
MEGAPHONE



MP-25SFM Hand-held Megaphone with Shoulder Strap - Powerful, 25W audio with whistle and siren. Detachable anti-howl microphone with coiled lead, on/off switch and volume control. Tough ABS housing with carrying strap. Range 330-550 yards depending on conditions. Operates on (8) 1.5V "C" batteries (not included) or the included 12VDC cord with cigarette lighter plug. Dim: 13.6" long (9" horn dia.), 3.6 lbs. **\$49.99**

T-5S PVC Insulation Tape - Set of 6 rolls each in a different color: yellow, white, green, black, blue and red. Individual length: 16.4 ft. **\$4.99**





VTTS 25 Piece Multi-Purpose Toolset – A quality toolset for the electronic engineer and hobbyist. Includes: 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in. **\$9.99**
Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal, 5" mini long nose



VT-SET3N 6-Piece Electronics Screwdriver Set Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle. **\$9.99**

VT-SET Stainless-steel precision Pliers Set 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers. **\$9.99**



VT-BT6 33 piece Screwdriver Bit Set – Includes Hex: #2, 2.5, 3, 4, 5, 6; Star: #T10, T15, T20, T25, T30, T40; Flat: 3, 4, 5, 6, 7; Phillips: 1 PH0, 2 PH1, 2 PH2, 2 PH3; Pozzi: 2 PZ1, 3 PZ2, 2 PZ3; Magnetic bit holder: 14" hex. **\$6.99**

VT-M468L Crimp Tool – For RJ10, RJ11, RJ45 (4P, 6P, 8P) modular connectors. **\$9.99**



VT-HD03U 62 piece Rechargeable Precision Drill Contents: 10,000 rpm rechargeable electric drill; 120VAC power supply; (10) grinder stones; (20) diamond bits; (2) connective posts; nylon brush; brass brush; steel brush; (5) cutting discs; (4) polishing wheels; (6) sanding bands; (4) drill bits; (4) collets; engraving bit; wet stone: 1 pc. **\$24.99**

AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to 126dB)
- A and C weighting
- 9V Battery included
- RCA output jack
- Dim: 2.4" w x 6.3" h x 1.7" d; 0.4 lbs

\$29.99



MISC. TOOLS



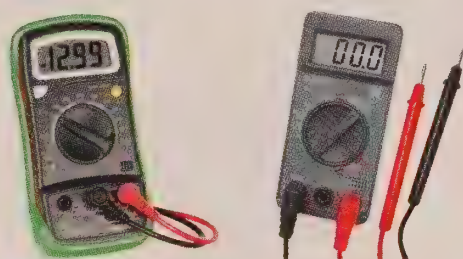
TLM-2 Test Leads – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A. **\$2.99**

TLM-10 Test Probe set – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks. **\$6.99**

K/TF 75-piece cable-tie pack – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long ties. **\$2.99**

VT-LAMP2BNU Magnifier Lamp – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount. . **\$49.99**

MULTIMETERS



DVM-850BL Digital Multimeter with Automatic Polarity Function and 3-1/2 Digit LCD Display (left) – Manual range selection, Data-hold function and back light. Measures AC and DC voltage up to 600V. Current up to 10A with overload protection, and Resistance up to 2MΩ. Diode, transistor (hFE) and continuity test with buzzer. Test leads, 6LR61 9V battery and protection holster included. Dim: 2.7" w x 5.4" h x 1.2" d. **\$19.99**

DVM-810 Mini 3-1/2 Digit Digital Multimeter (right) – Compact, a perfect fit for any toolbox or even shirt pocket. Measure AC and DC voltages up 500V and DC current up to 10A maximum. Measure resistance up to 2MΩ. Diode and transistor (hFE) test. Test leads and GP23GA 12V battery included. Dim: 1.8" w x 3.75" h x 1" d. **\$9.99**

DESOLDERING TOOL

VT-D2 Extra Powerful Desoldering Tool – The easy way to remove solder from printed circuit boards, terminals and wires. Simply depress and lock down the spring loaded plunger. Place the tool tip over the heated molten solder and release the plunger. A strong vacuum at the tip removes the solder and captures it inside the cylinder. Teflon® nozzle. Dim: 13.2 in. long. **\$4.99**



SOLDER - PB FREE & REGULAR

SOLD-250GLF Lead Free Rosin Core Solder Wire – 99.3% tin, 0.7% Cu, Dia. 0.04" 482°F melting point, 0.55 lb. roll. **\$19.99**



KES 8330000000 "Kwik-Draw" Rosin Core Solder Wire – 60% tin, 40% lead, Dia. 0.05" 361-374°F melting point, 1.3 oz. roll. **\$4.99**

Weller SOLDERING TOOLS



SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V. . **\$17.99**

W-60P 60W Pencil-Type Soldering Iron – For most circuit work. 0.0625 in., 700°F screwdriver tip. Temperature controlled by the tip you use. Dim: 7 1/2 in. long, 2.5 oz., 6 ft. cord, 120V. **\$73.99**

WP-25 25W Pencil-Type Soldering Iron – For work on delicate electronics. 750°F tip temperature. Dim: 7.9 in. long, 1.75 oz., 4 ft. cord, 120V. **\$38.99**

ST-4 – 3/16 in. Screwdriver Tip. **\$3.99**

ST-5 – 1/32 in. Screwdriver Tip. **\$3.99**

WSTA3 Pyropen® Butane Soldering Iron with Case – Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing. **\$129.99**

7200PK Multi-purpose Soldering Gun – Compact and lightweight, but 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC. **\$29.99**
7235 – (2) Extra standard tips. **\$3.99**



SOLDERING STATIONS

WESD51 50W Adjustable Soldering Station (left) For continuous production soldering as well as occasional use. Quick heat-up, and tip temperature recovery. Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9" w x 4.5" h x 3.6" d; 4 lbs. **\$169.99**

WTCPT 60W Temperature Controlled Soldering Station (right) – For production, rework, and repair of through-hole and SMT boards. ESD safe, tip maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5" w x 5.9" h x 3.6" d; 4 lbs. **\$149.99**

SOLDERING - continued

WAHL® ELECTRONICS ISO-TIP

7740 Cordless Soldering Iron Kit - Provides tip performance up to 50W and over 700°F. Contains premium NiCad rechargeable battery with high-rate charging capability. Partially discharged, it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips..... **\$49.99**

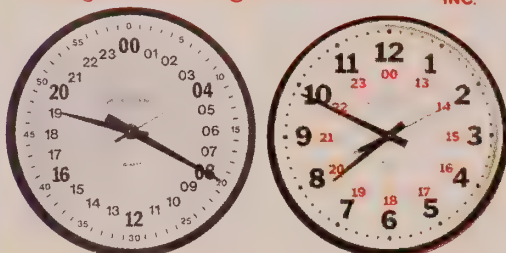


7971 SolderPro 50 BUTANE Soldering Iron - Ready to use within 10 seconds. Adjustable, 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0mm conical tip. Dim: 4-3/4 in. long.. **\$25.99**

7974 SolderPro 70 BUTANE Soldering Iron - Adjustable, 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long. **\$39.99**

POPULAR CLOCKS

Benjamin Michael Industries INC.



973A - Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75"d..... **\$49.99**

972AD - Same but 12/24 hour dial. **\$32.99**

MFJ

105C 24 Hour Quartz Wall Clock - Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **\$24.99**



125 DXer's Dream Quartz Wall Clock The 12 in. diameter face shows 24-hour time. Three independently settable table dials show 12 hour time, day and date. Uses a single "AA" battery..... **\$34.99**



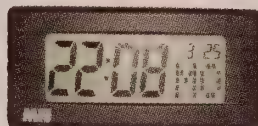
Small 24-Hour Clocks - A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B Single Clock - 2.25"w x 1"h x 2"d. **\$12.99**

108B Dual Clock - 4.25"w x 1"h x 2"d.... **\$21.99**



112B DXer's World Map Clock - Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month and year. Select 12 or 24 hour time. Dim: 4.25"w x 3.3"h x 2.25"d.... **\$29.99**



118 Jumbo LCD™ 24/12-hour Clock - 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calender and flip stand. Uses one "AAA" battery. Dim: 3.375"w x 5.75"h x 0.5"d. **\$29.99**



123B Solar Powered Atomic LCD Clock

No need for batteries or to set time! Receives WWVB signal. Display is 3.5"h x 6.25"w with huge 2" time digits. Choose 24 or 12 hour time. Has indoor temperature, running seconds, month/date and day-of-week displays. Attractive silver metallic looks fantastic on the wall or desk mounted in the shack or office! Dim: 9.5"w x 6.25"h x 1"d. **\$79.99**



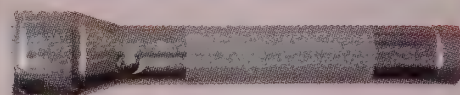
113 12/24 Hour Desk Clock - Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d. **\$19.99**

PDK Technologies



LITE FLARE® Emergency Signaling Device Eliminates the fire and environmental hazards of using incendiary flares. Approaching drivers can see the flashing super-bright red LED lights from more than a mile away. Operates over 400 hours on just two included AA batteries. The LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water, and fuel spills. Comes with three units in a plastic case that fits handily into motorcycle storage compartments, glove boxes, or trunks. Dim: 4.25"l x 3.8"w x 1"d; 6 oz..... (3 pack) **\$29.99**

HOUSE of DEALS LED Flashlight



FL-3232T 32-LED Flashlight. **\$24.99**

- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)



The Sticky Pad holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

STI 13810 - Dim: 7.25 in. x 4.13 in. **\$5.99**

STI 13820 - Dim: 8.75 in. x 6.875 in. **\$9.99**

Q-VIEW QSL Card Holders



Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards... **ART QSLCARDHOLDE (3 pack) \$19.99**

PHONE PATCH



624E Deluxe Hybrid Phone Patch - Use with any rig with 8-pin or modular mic connector. Operate VOX or PTT. Built-in VU meter monitors phone line levels. Null depth control adjusts for maximum receiver and transmitter isolation. Separate TX and RX gain controls. RJ-11 jacks for speaker, audio in and audio out. Use 12 VDC, 9V battery or 110 VAC with MFJ-1312D. Dim: 8"w x 2"h x 6"d. **\$149.99**



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SEE THE LATEST DEALS AND NEW PRODUCTS

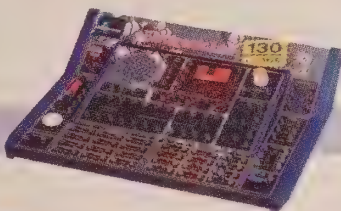


ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for EZ construction • No experience required!



EL-301 30 in 1 Electronic Lab Kit – This great starter kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more. **\$39.99**



EL-1301 130 in 1 Electronic Lab Kit – Build a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls. **\$89.99**



EL-3001 300 in 1 Electronic Lab Kit – Choose from over 300 exciting electronic projects including: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more. **\$129.99**

VECTRONICS RADIO KITS

There are three difficulty levels so you can have fun no matter what your skill level is!

Simple (S): Calls for a few basic tools - a soldering iron, cutters, pliers, wire-strippers, and a small

screwdriver. **Intermediate (I):** Requires more involved construction - you may use some test gear for final adjustment or tuning. **Moderate (M):** Requires some test gear - usually a multimeter for some final adjustment or tuning.

1140K 40M Receiver Kit (M)..... **\$29.99**

121K Crystal Radio Kit w/Earphone (S).. **19.99**

1240K 40M QRP CW Transmitter Kit (I). **29.99**

1290K AM Radio Transmitter Kit (S)..... **29.99**

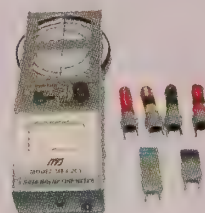
131K Aircraft Receiver Kit (I)..... **29.99**

201K CW Keyer Kit (S)..... **24.99**

830K SSB Audio Filter Kit (S)..... **19.99**

MFJ MISCELLANEOUS ACCESSORIES

201 Dip Meter



Find a coil's resonant frequency. Couple it to an antenna or coax line to find the electrical length. Use it as an absorption wavemeter for indicating transmitter output, neutralizing tank circuits, or as a field strength meter. Other uses include: crystal oscillator, monitoring audio signal outputs and measuring L/C circuits. All solid-state design, covers 1.5 to 250 MHz in six bands. It has thumb wheel tuning, color coded readout, six band coils, earphone jack and battery check. Requires 9V battery. Dim: 2.5" w x 7" h x 2.0" d. **\$139.99**



762 Step Attenuator – Provides push-button selection of up to 81dB of attenuation in 1dB steps up to 170 MHz (usable to 500 MHz). Shielded stages. Rated for 250 mW maximum power. 50Ω input and output. BNC RF connectors with SO-239 adapters. Metal cabinet. Dim: 6.5" w x 2.5" h x 1.5" d. **\$89.99**



219B 440MHz Antenna SWR Analyzer – Attach your UHF antenna coax and read the SWR on any frequency between 420 and 450 MHz. Adjust dipoles, verticals, yagis, quads and other antennas. Determine resonant frequency, and bandwidth. Test and tune stubs and coaxial lines. Determine velocity factor, impedance and estimate transmission line losses. Adjust and test RF matching networks and RF amplifiers without applying power. Use as a signal source for testing and alignment. 10:1 vernier reduction drive for extra smooth precision tuning. The built-in type-N connector includes an SO-239 adapter. It has battery check and power saving features. For 50Ω systems. Uses (10) AA batteries or 110 VAC (with MFJ-1312D). Dim: 3.75" w x 6.5" h x 1.75" d. **\$109.99**

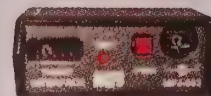


21 Transformer Oil

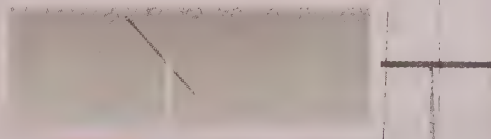
A one gallon container of PCB-free, industrial grade transformer oil. Used as coolant with the MFJ-250X, Ameritron DL-1500 or any other oil-filled dummy load **\$29.99**

1800 - 16-Element Wi-Fi Yagi – Covers 2.4 GHz with 15dBi gain which greatly extends the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes interfering signals. Works any 2.4 GHz device. Unique mount has a built-in standard N-type female connector and can mount on a camera tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mount. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 in. weight 2.9 oz. **\$29.99**

5606SR – 6 ft. cable with N-type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector. **\$24.99**



MFJ 662 Simplex Pocket Repeater – Have your own private portable repeater within your neighborhood or when on the road. As a simplex repeater with another radio, it digitally records audio from an out-of-range HT/mobile and then re-transmits it to you, repeating a message up to 32 seconds long. LED record indicator. Uses a 9V battery, 9-15 VDC or 110VAC (with optional MFJ-1312D). Dim: 2.25" w x 3.75" h x 1" d. **\$89.99**



1762 3-Element 6 Meter Beam (Left)

Quadruples your effective radiated power over 1/2-wave dipole. Boom length: 6 ft.; Weight: 2 lbs; Power: 300W PEP SSB. Mounts vertically or horizontally, turns easily with a TV rotator. **\$99.99**

1763 Portable 3-Element 2 Meter Beam (Right)

Elements simply screw into the boom, set up or take it down in seconds. Use it vertically on FM or horizontally for SSB. Boom length: 2.5 ft.; Weight: 2 lbs. Mounts to mast or tower leg with a single included U-bolt. SO-239 rear connector. **\$54.99**



1730 2-Meter Pocket Roll-up Antenna – Just hang up this 1/2-wave J-antenna in the clear, plug the handy BNC connector into your handheld and get better performance on the go. Its omni-directional and

has significant gain over a rubberduck or 1/4 wave whip. Dim: 75" long **\$29.99**

1736 6 Meter Roll-Up J-Pole Antenna – Similar to 1730, above. 1/2-wave long, resonant around 52.5 MHz, VSWR <2:1. SO-239 connector. **\$29.99**

202B RX Noise Bridge

Adjust antennas for top performance, 1 to 100 MHz. Determine whether to lengthen or shorten for minimum SWR, see the resonant frequency, feedpoint resistance and reactance. Works with any receiver or transceiver. Dim: 4.25" w x 2" h x 4" d. Uses 9-Volt battery (not included) **\$79.99**



WE WANT TRADE-IN RADIOS!

Tell us what HAM equipment you have to trade...

Alinco, Icom,
Kenwood & Yaesu

1-800-832-0411

Sorry, no
Handhelds

Also check out our Open Carton & Used Equipment list Online!



Electronic Lab Kits
Misc. Ham Equipment

129

COD ORDERS

Minimum COD order is \$50.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$10.00 COD fee per package applies. Payment by money order or certified check only, not cash.

DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see "Canadians Note:" under TRADE-INS.

INTERNET ORDERS

You can order directly via our website - www.aesham.com. If you have any problems using our website or would like to speak to a salesman; call any of our locations for support.

PAYMENT

Accepted forms of payment are electronic bank transfer (add \$50.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc. prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. AES is not responsible for typographical errors or omissions.

REFUNDS

Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial or evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee**. The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. We reserve the right to charge back actual outbound freight on returns from flat-rate or prepaid shipments. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "Canadians Note:" under TRADE-INS.

REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on this page for rates). Cancellations on partially shipped orders will not affect

the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches due to various reasons. In this case, AES will ship the order from a location that has the needed item.

TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments are not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

In a small part of our attempts to be more "Green" please excuse the use of boxes which contain logos and products of other companies.

BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from companies well rated by D&B, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the opportunity to bid on your equipment requests. We are registered with FACNET and accept Government issued credit cards. For more information please contact any AES location.

SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. Often we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via **Bank Wire Transfer** or **Western Union®**. Please contact us for the information to send funds. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export many products to EU member countries and members of the European Economic Area (EEA).

FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

AMOUNT OF ORDER

SHIPPING CHARGES

Up to \$99.99	\$4.99
\$100.00 to \$499.99	\$9.99
\$500.00 to \$1499.99	\$14.99
\$1500.00 & UP	FREE!

*Flat Rate Does Not Apply To Drop Shipments or
UPS Ground Shipments to Alaska or Hawaii*

Flat Rate Advantage - No Penalty for Number of Cartons or Weight!

UPS cannot deliver to Post Office Boxes

Our Experienced Sales Staff at your Service...

MILWAUKEE, WI 1-800-558-0411 • 414-358-0333



GARY L. KA9YTB



PAUL W9KHO



JIM WJ9P



SANDY K9WOOF
AES SALES DOG



TOM W9TJP
National Sales
Manager



JEFF N9EDQ
Assistant Manager



RAY W9KHH



GREG K9XBX

CLEVELAND, OH 1-800-321-3594 • 440-585-7388



BEN AA8AH
Store Manager



MIKE KC8NMW
Assistant Manager



PHILLIP KB8GA



MATT W8DEC



ED K8CVZ

LAS VEGAS, NV 1-800-634-6227 • 702-647-3114



LUKE KK7XX
Store Manager



JULIO KP4UZ
Assistant Manager
Hablo español
Ich spreche Deutsch



ART K7ZE

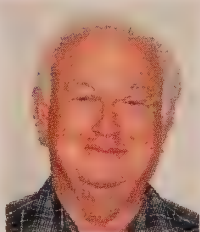


BILL W6EIO

ORLANDO, FL 1-800-327-1917 • 407-894-3238



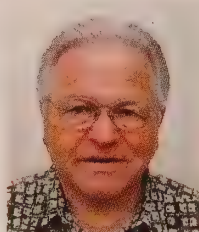
CHARITY KF4RQY
Store Manager



GRANT K4IQW
Assistant Manager



EDDIE KD4RAZ
Hablo español



ERNIE K1HO



GEORGE K2WO



JIM W9QC



CARLOS K2CMR
Hablo español

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.



MILES, K9HMQ SERVICE MANAGER
(Milwaukee Store)

WANTED: ELECTRONIC TECHNICIAN

TO REPAIR HAM EQUIPMENT
AT AES MILWAUKEE

CONTACT Miles

SERVICE MANAGER

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service" and always adequately insure your items.

Labor Rates

- \$72 per hour for Out-Of-Warranty Service
- \$96 minimum on HF/VHF Base Stations
- \$72 minimum on VHF/UHF Mobiles and Handhelds
- Rates do not include Parts, Return Shipping or Handling Charges

SHIPPING INFORMATION

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to \$99.99	\$4.99
\$100.00 to \$499.99	\$9.99
\$500.00 to \$1499.99	\$14.99
\$1500.00 & UP	FREE!

*Flat Rate Does Not Apply To Drop Shipments
or UPS Ground Shipments to Alaska or Hawaii*

(Flat Rate Advantage - No Penalty for Number of Cartons or Weight!)

EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

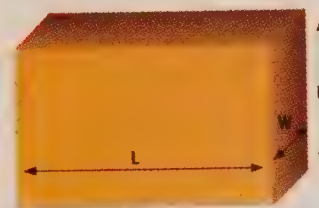
Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see **Policies Page** for complete information.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for our Tracking Number Service. Or send us an email to info@aesham.com.



Domestic Air
 $L \times W \times H = \text{Dimensional Weight}$
194



International Air
 $L \times W \times H = \text{Dimensional Weight}$
166

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.

We Invite You to Visit the Nearest AES[®] Location

All Store Hours: Monday-Friday • 9am to 5:30pm, Saturday • 9am to 3pm
Check our our D-Star repeaters when visiting Milwaukee, Orlando and Las Vegas!

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MILWAUKEE, WISCONSIN



**AES Milwaukee
D-Star Repeater:**
K9AES 145.235 -0.6

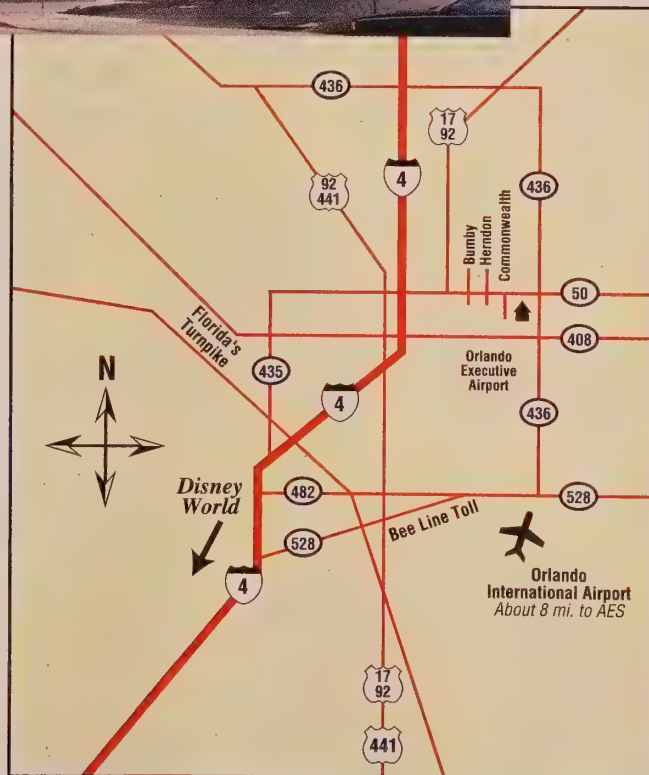


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ORLANDO, FLORIDA



**AES Orlando
D-Star Repeaters:**
W4AES 443.625 +5
KJ4MMC 145.29 -0.6
1291.3 -20 DV
1251.3 DD



621 Commonwealth Ave. • 1-800-327-1917 • 407-894-3238

LAS VEGAS, NEVADA



**AES Las Vegas
D-Star Repeaters:**
W7AES 145.145 -0.6
449.575 -5
1282.39 -12 DV
1299.39 DD



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Schaumburg, IL 60173
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Torrance, CA 90501
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info@aorusa.com

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307-638-2369
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astroncorporation@yahoo.com

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w6ter@att.net

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Florissant, CO 80816
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www.isotronantennas.com
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info@cablexperts.com

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support@davisnet.com

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diamondantenna@rfparts.com

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www.greamerica.com

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hargersales@harger.com

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info@heilsound.com

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940-325-1386 • fax: 940-325-5077
service@new-tronics.com

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425-454-8155 • fax: 425-454-1509
Tech Support: 800-253-1498
amateur@icomamerica.com

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269-429-2334

ICOM SERVICE CENTER - SOUTH EAST

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www.kenwood.net

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City of Industry, CA 91745
626-333-2435

KENWOOD SERVICE CENTER-EAST

Audio Video Service Lab Inc. dba KASC-East
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Virginia Beach, VA 23452
757-340-1702

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www.larsen-antennas.com

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ldg@ldgelectronics.com

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559-432-8873 • fax: 559-432-3059
www.m2inc.com

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ameritron@ameritron.com
(CUSHCRAFT) 662-323-5803
cushcraftamateur@mfjenterprises.com
(HY-GAIN) 662-323-9538
hygain@mfjenterprises.com
(MIRAGE) 662-323-8287
mfjcustserv@mirageamp.com
(VECTRONICS) 662-323-5800
mfjcustserv@vectronics.com

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sales@natcommgroup.com

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800-773-7931 • fax: 937-773-8003
info@palstar.com

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www.powerwerx.com

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www.rfconcepts.com

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404-806-9561 • fax: 770-216-1836
techsupport@rtsystemsinc.com

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Tech Support: Mon, Wed, Fri @ 1-5pm PDT
541-862-2639 • tigertronics.com

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559-564-6000 • fax: 559-564-6011
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785-524-9966 • fax: 785-524-9908
www.ustower.com

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251-478-8873 • fax: 251-476-0465
vibroplex@vibroplex.com

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fax: 256-880-3866
info@w4rt.com

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ANALOG & DIGITAL, ALL IN ONE

Every Icom portable and mobile transceiver that works D-STAR also offers world-class analog performance, all in the same rig. Keep in touch with friends via traditional FM while you advance in the hobby.

D-STAR ready



Shown with Optional
GPS Speaker Mic
(HM-189GPS)

IC-80AD NEXT GENERATION 2M/70CM DUAL BANDER

Join the future of amateur radio with the latest in D-STAR. This compact rig is perfect for those getting started on VHF/UHF bands, and who want to play with the new technology. In addition to the 5 watt output for 2m and 70cm, there are three additional output levels to extend your operational time between charges. To increase your fun, the '80AD has a wide band receiver that goes far beyond just ham bands.

D-STAR ready

IC-92AD MILITARY RUGGED AND SUBMERSIBLE



- 5/2.5/0.5/0.1 Watt Output
- RX: 0.495–999.990, 118–174, 350–470MHz*
- 1304 Alphanumeric Memory Channels
- Optional GPS Speaker Mic (HM-175GPS)
- IPX7 Submersible

D-STAR optional

IC-91A ANALOG & DIGITAL DUAL BANDER



- 5/0.5 Watt Output
- RX: 0.495–999.990, 118–174, 350–470MHz*
- 1304 Alphanumeric Memory Channels
- Li-ion Battery
- Digital Voice and Data (Optional UT-121 Required)

D-STAR optional

IC-V82 & IC-U82 D-STAR UPGRADEABLE FOR 2m OR 70cm



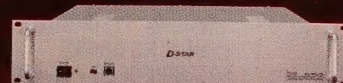
- 7/4/0.5W (V82), 5/2/0.5 (U82)
- RX: 136–174MHz* (V82), 400–479MHz* (U82)
- 207 Alphanumeric Memory Channels
- CTCSS & DTCS Encode/Decode with Tone Scan
- Digital Voice & Data (Optional UT-118 Required)

D-STAR Repeater System



ID-RP2C REPEATER CONTROLLER

The cornerstone of the D-STAR system. Handles up to four RF modules. Basic in-band or crossband operation. Linking capabilities through the Internet.



ID-RP2D 1.2GHZ DATA MODULE

Access point with a data rate of up to 128kbps. Perfect for email, web applications and support via Internet.

*Frequency specs may vary. Refer to owner's manual for exact frequency specs. *IPX7: Tested to work after being under 1 meter of water for 30 minutes.

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ID-880H VERSATILE 2M/70CM MOBILE

The mobile companion to the IC-80AD. Compact, dual band operation, remotable control head that fits just about anywhere, 50 full watts of output power on both VHF and UHF, easy-to-use menu system, wide band RX, and much more. It may be Icom's most affordable dual bander with D-STAR capability, but this workhorse is full of features you'd expect to find in expensive packages.



D-STAR ready



D-STAR ready

ID-1

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- 10 Watt on 23cm (FM, DV, DD)
- RX: 1240–1300MHz*
- 100 Alphanumeric Memory Channels
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- Black Box Operation
- Remote Control Head, Remote Speaker and Cables Included
- PC Software Included



D-STAR optional

IC-2820H

D-STAR UPGRADEABLE 2m/70cm

- 50/15/5 Watt Output
- RX: 118–549.995, 118–173.995, 375–549.999, 810–999.990MHz*
- 522 Alphanumeric Memory Channels
- One Touch Reply Function
- Digital Voice/GPS (Optional UT-123 Required)
- Low Speed Data (Optional OPC-1529R Required)

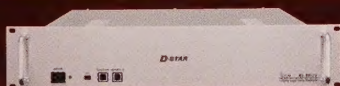


D-STAR optional

IC-2200H

D-STAR UPGRADEABLE FOR 2m

- 65 Watt Output
- RX: 118–174MHz*
- 207 Alphanumeric Memory Channels
- CTCSS & DTCSS Encode/Decode with Tone Scan
- Built-in 10dB Squelch Attenuator
- Digital Voice & Data (Optional UT-118 Required)



ID-RP2V
1.2GHZ DIGITAL VOICE MODULE



ID-RP2000V
2M DIGITAL VOICE MODULE



ID-RP4000V
70CM DIGITAL VOICE MODULE

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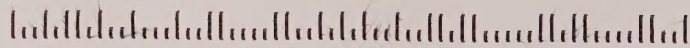
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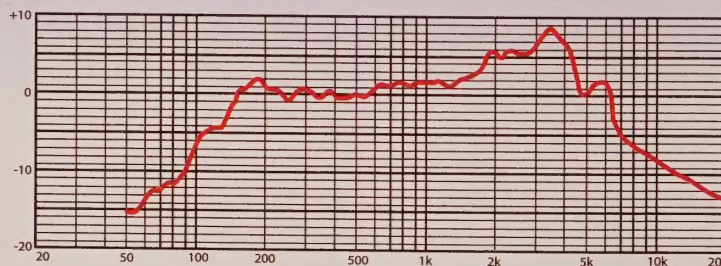
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- Uses all standard Heil headphone adapters
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-3dB points set at 10 Hz and 22 kHz



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